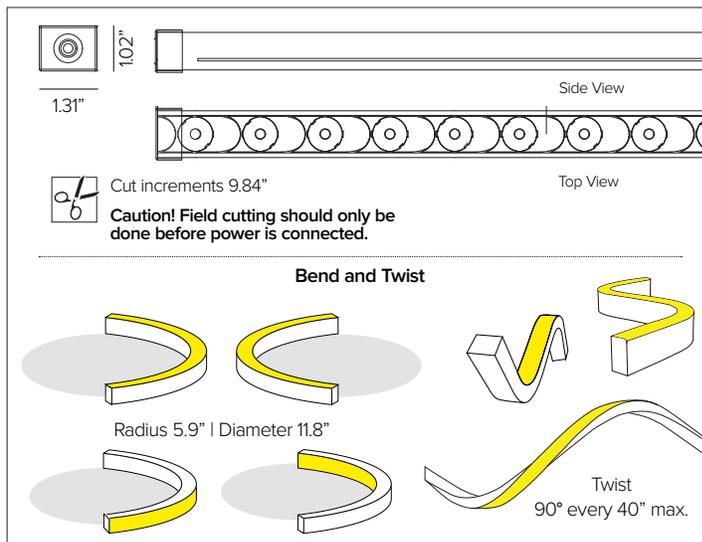


# DURAFLEX OPTICS – LUMA DUAL

## Static White Flexible Linear with Dedicated Optics



### CONCEPT

A high output flexible linear with dedicated optical control of static white light. Dual bend functionality for use in both horizontal or vertical applications.

### MECHANICAL CHARACTERISTICS

<b>Materials</b>	LED strip with independent optic and fully extruded silicon jacket.
<b>Finish</b>	● White ● Black
<b>Functionality</b>	Precise optical beam control for linear applications.
<b>Installation</b>	Field cuttable. Manufacturer pre-assembled to specific project lengths with factory attached end prep assemblies to be mounted or inserted into thermally protective profiles, see available options.
<b>Protection</b>	Strip jacket rated at IP67.

### CERTIFICATIONS

cETLus Class 2 Listed  
 Tested in accordance with LM-79-08  
 Energy efficient for California installations.  
 RoHS compliant

### WARRANTY

5 year limited warranty

### ELECTRICAL CHARACTERISTICS

<b>Power Connection</b>	Manufactured to specified lengths with factory attached translucent silicone end preps and various connector options for project requirements and efficient power configurations.
<b>Wattage</b>	76W/ft
<b>Voltage</b>	Listed Class 2 output, 24V DC power supply required
<b>Trigger Time</b>	< 0.2s
<b>Number of cycles</b>	100,000
<b>Operating Temp.</b>	-25°C / +35°C
<b>Max Continuous Length</b>	Field trimmable every 9.84". 9ft continuous lengths

### SOURCE

<b>LEDs</b>	7 LEDs/ft						
<b>Spacing</b>	1.71" O.C.						
<b>TM30</b>	<b>CCT (Nominal)</b>	<b>CRI</b>	<b>Rf</b>	<b>Rg</b>	<b>R9</b>	<b>DUV</b>	<b>SDCM</b>
	2700K	94	92	97	62	0.0009	2.0
	3000K	93	91	98	64	0.0009	2.0
	3500K	93	91	98	64	0.0010	2.0
	4000K	93	91	101	71	0.0010	2.0
<b>Strip &amp; LED Details</b>	<b>Model</b>	<b>W/LED</b>	<b>Delivered Lumens*</b>		<b>Viewing Angle</b>		
	WG	1.09	185Lm/ft		26° x 51°		
	WW	1.09	185Lm/ft		34° x 40°		
	13°	1.09	204Lm/ft		13°		
	20°	1.09	204Lm/ft		20°		
	30°	1.09	204Lm/ft		29°		
	40°	1.09	204Lm/ft		43°		
<b>Efficacy</b>	93Lm/W max. Refer to photometric graphs for specific values.						
<b>Lifetime</b>	L70/B20 >50,000hrs at max TA +25°C						

# DURAFLEX OPTICS – LUMA DUAL

## SPECIFICATION INFORMATION

DFO										
1	2	3	4	5	6	7	8	9	10	11
							<b>REQUIRED</b>		<b>OPTIONAL</b>	

Ex: DFODBW76OWG2724 / KT22UWL1 / KT22UT1 / DMLE301242UD

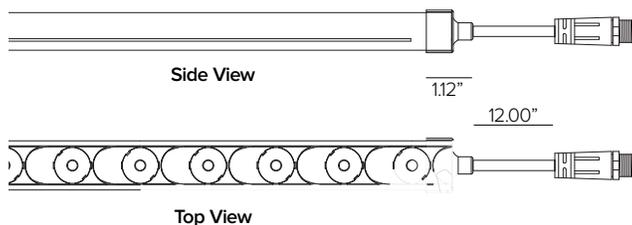
1 - PRODUCT CODE	2 - BEND	3 - FINISH	4 - WATTAGE	5 - RATING	6 - OPTICS	7 - KELVIN	8 - VOLTAGE	
DFO — DURAFLEX OPTICS	DB — LUMA DUAL BEND	W — White	76 — 76W/ft	O — IP66	WG — Wall Graze 26° x 51°	27 — 2700K	24 — 24V DC	
		B — Black			WW — Wall Wash 34° x 40°	30 — 3000K		
					13 — 13°	35 — 3500K		
					20 — 20°	40 — 4000K		
					30 — 29°			
		40 — 43°						
8 - END PREP CONNECTION	9 - MOUNTING	10 - DRIVER						
<b>REQUIRED</b> <a href="#">See section for details</a>	<b>REQUIRED</b> <a href="#">See section for details</a>	<b>REQUIRED</b> <a href="#">See section for details</a>						

## FINISHES



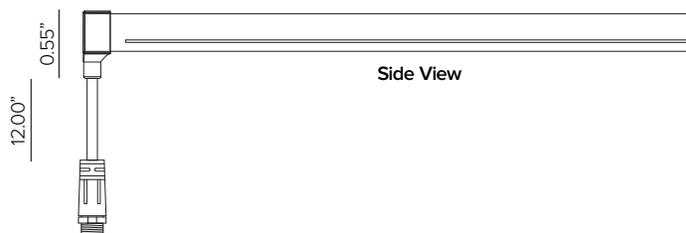
# DURAFLEX OPTICS – LUMA DUAL

## 8 - END PREP CONNECTION (REQUIRED)



DURAFLEX LINEAR OPTICS straight end feed kit. Factory attached silicone lead with two piece 12" wire, with IP65 quick disconnect at one end of product and dead end cap at other end. Lead wire/dead end allows for connection to power at lead end and field trim of DURAFLEX OPTICS product at the other end. Completed with translucent silicone factory attached end cap.

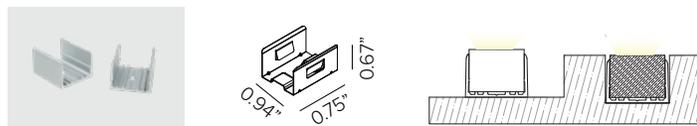
Finish	<input type="radio"/> White	<input checked="" type="radio"/> Black
Part No.	<b>KT22UWL1</b>	<b>KT22UBL1</b>



DURAFLEX LINEAR OPTICS bottom end feed kit. Factory attached silicone lead with two piece 12" wire, with IP65 quick disconnect at one end of product and dead end cap at other end. Lead wire/dead end allows for connection to power at lead end and field trim of DURAFLEX OPTICS product at the other end. Completed with translucent silicone factory attached end cap.

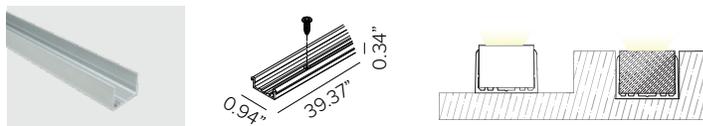
Finish	<input type="radio"/> White	<input checked="" type="radio"/> Black
Part No.	<b>KT22UWL3</b>	<b>KT22UBL3</b>

## 9 - MOUNTING (REQUIRED)



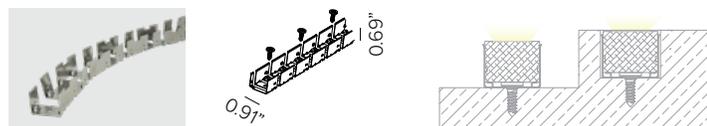
DURAFLEX LINEAR OPTICS bottom fixing clips, stainless steel. Includes 2ea clips and 2ea screws.

Part No. **KT22UT1**



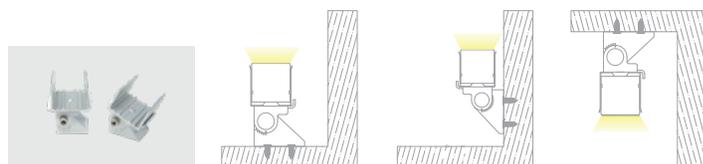
DURAFLEX LINEAR OPTICS aluminum rigid profile with 2ea screws. Dimension: 39" (1M) Length. **Note, translucent cap style and bottom termination end prep configurations rest outside of the profile.**

Part No. **KT22UP1**



DURAFLEX LINEAR OPTICS flexible stamped stainless steel profile secured with screws, 1ea provided per foot. Available in 1ft lengths. **Note, translucent cap style and bottom termination end prep configurations rest outside of the profile.**

Part No. **KT22UVP2**



DURAFLEX LINEAR OPTICS adjustable bracket kit with 5ea screws. White finish.

Part No. **KT22UOB**



# DURAFLEX OPTICS – LUMA DUAL

## 10 - POWER SUPPLY (REQUIRED)

ENCLOSURE								
Part No.	Wattage	Control	Dim Range	Rating	In / Out Voltage	Certification	Dimensions (Enclosure)	Description
<b>DMLE301242UD</b>	30W	MLV / ELV / 0-10V / TRIAC	MLV / ELV <10% 0-10V 1%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD electronic driver with wiring compartment.
<b>DELV30124DJBX</b>	30W	0-10V	0.1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
<b>DMLE601242UD</b>	60W	MLV / ELV / 0-10V / TRIAC	MLV / ELV <10% 0-10V 1%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD electronic driver with wiring compartment.
<b>DELV60124DJBX</b>	60W	0-10V	0.1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
<b>DELX601241CPWM</b>	60W	0-10V	1%	NEMA3R	120-277V / 24V	UL Class 2	10" x 10" x 4"	MEANWELL electronic PWM driver.
<b>DELX901241CPWM</b>	90W	0-10V	1%	NEMA3R	120-277V / 24V	UL Class 2	10" x 10" x 4"	MEANWELL electronic PWM driver.
<b>DMLE961242UD</b>	96W	MLV / ELV / 0-10V / TRIAC	MLV / ELV <10% 0-10V 1%	NEMA3R	120-277V / 24V	UL Class 2	5.16" X 7.73" X 1.54	EMCOD electronic driver with wiring compartment.
<b>DELV96124DJBX</b>	96W	0-10V	0.1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
<b>DELX1802242CPWM</b>	2X90W	0-10V	1%	NEMA3R	120-277V / 24V	UL Class 2	12" x 12" x 4"	MEANWELL electronic PWM driver.
<b>DMLE1922242UD</b>	2X96W	MLV / ELV / 0-10V / TRIAC	MLV / ELV <10% 0-10V 1%	NEMA3R	120-277V / 24V	UL Class 2	5.04" X 10.94" X 1.81	EMCOD electronic driver with wiring compartment.
<b>DEL12703243CPWM</b>	3X90W	0-10V	1%	NEMA1	120-277V / 24V	UL Class 2	12" x 12" x 4"	MEANWELL electronic PWM driver.
<b>DMLE2882242UD</b>	3X96W	MLV / ELV / 0-10V / TRIAC	MLV / ELV <10% 0-10V 1%	NEMA3R	120-277V / 24V	UL Class 2	5.04" X 10.94" X 1.81	EMCOD electronic driver with wiring compartment.

STAND ALONE								
Part No.	Wattage	Control	Dim Range	Rating	In / Out Voltage	Certification	Dimensions (Standalone)	Description
<b>DELV30124D</b>	30W	0-10V	0.1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. <b>UL listed enclosure provided by others.</b>
<b>DEL60PWM</b>	60W	0-10V	1%	IP67	120-277V / 24V	UL Class 2	5.9" X 2.09" X 1.38"	MEANWELL electronic PWM driver. <b>UL listed enclosure provided by others.</b>
<b>DELV60124D</b>	60W	0-10V	0.1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. <b>UL listed enclosure provided by others.</b>
<b>DEL90PWM</b>	90W	0-10V	1%	IP67	120-277V / 24V	UL Class 2	6.73" X 2.48" X 1.48"	MEANWELL electronic PWM driver. <b>UL listed enclosure provided by others.</b>
<b>DELV96124D</b>	96W	0-10V	0.1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. <b>UL listed enclosure provided by others.</b>

### MAX INTERCONNECTED FLEX LENGTHS PER DRIVER

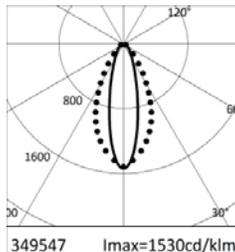
Fixture Wattage	Driver Wattage					
	90W	96W	2X90W	2X96W	3X90W	3X96W
7.6W	8FT	9FT	(2) 8FT	(2) 17FT	(3) 16FT	(3) 17FT

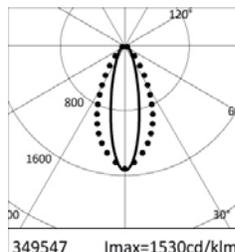
# DURAFLEX OPTICS – LUMA DUAL

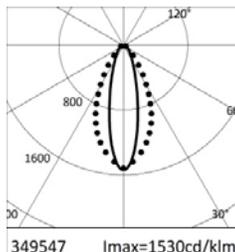
## PHOTOMETRY

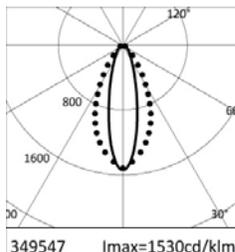
IES FILES SHOWN AT 1M (3.28FT) LENGTHS

### Wall Graze

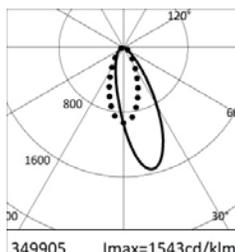
	2700K	H(m)	D1(m)	D2(m)	E <sub>max</sub> (lx)		
	Ra94		26°	51°			
	Fixture Power	8W	1	0.47	0.96	878	
	Source Flux	574lm	2	0.94	1.91	219	
	Fixture Flux	574lm	3	1.41	2.87	98	
	Efficacy	76lm/W	4	1.88	3.82	55	
349547	I <sub>max</sub> =1530cd/klm	I <sub>max</sub>	878cd	5	2.35	4.78	35

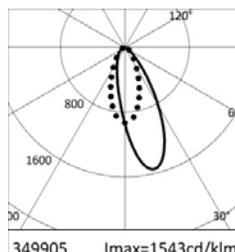
	3000K	H(m)	D1(m)	D2(m)	E <sub>max</sub> (lx)		
	Ra93		26°	51°			
	Fixture Power	8W	1	0.47	0.96	926	
	Source Flux	606lm	2	0.94	1.91	232	
	Fixture Flux	606lm	3	1.41	2.87	103	
	Efficacy	80lm/W	4	1.88	3.82	58	
349547	I <sub>max</sub> =1530cd/klm	I <sub>max</sub>	927cd	5	2.35	4.78	37

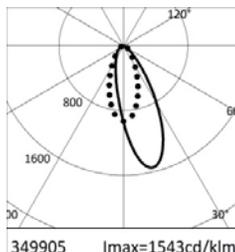
	3500K	H(m)	D1(m)	D2(m)	E <sub>max</sub> (lx)		
	Ra93		26°	51°			
	Fixture Power	8W	1	0.47	0.96	948	
	Source Flux	620lm	2	0.94	1.91	237	
	Fixture Flux	620lm	3	1.41	2.87	105	
	Efficacy	82lm/W	4	1.88	3.82	59	
349547	I <sub>max</sub> =1530cd/klm	I <sub>max</sub>	949cd	5	2.35	4.78	38

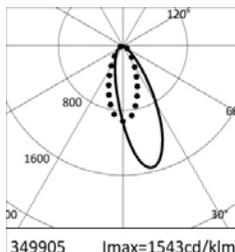
	4000K	H(m)	D1(m)	D2(m)	E <sub>max</sub> (lx)		
	Ra93		26°	51°			
	Fixture Power	8W	1	0.47	0.96	986	
	Source Flux	645lm	2	0.94	1.91	247	
	Fixture Flux	645lm	3	1.41	2.87	110	
	Efficacy	85lm/W	4	1.88	3.82	62	
349547	I <sub>max</sub> =1530cd/klm	I <sub>max</sub>	987cd	5	2.35	4.78	39

### Wall Washer

	2700K	H(m)	D1(m)	D2(m)	E <sub>max</sub> (lx)		
	Ra94		34°	40°			
	Fixture Power	8W	1	0.65	0.75	823	
	Source Flux	574lm	2	1.30	1.50	206	
	Fixture Flux	574lm	3	1.95	2.25	91	
	Efficacy	76lm/W	4	2.60	3.00	51	
349905	I <sub>max</sub> =1543cd/klm	I <sub>max</sub>	886cd	5	3.25	3.75	33

	3000K	H(m)	D1(m)	D2(m)	E <sub>max</sub> (lx)		
	Ra93		34°	40°			
	Fixture Power	8W	1	0.65	0.75	869	
	Source Flux	606lm	2	1.30	1.50	217	
	Fixture Flux	606lm	3	1.95	2.25	97	
	Efficacy	80lm/W	4	2.60	3.00	54	
349905	I <sub>max</sub> =1543cd/klm	I <sub>max</sub>	935cd	5	3.25	3.75	35

	3500K	H(m)	D1(m)	D2(m)	E <sub>max</sub> (lx)		
	Ra93		34°	40°			
	Fixture Power	8W	1	0.65	0.75	890	
	Source Flux	620lm	2	1.30	1.50	222	
	Fixture Flux	620lm	3	1.95	2.25	99	
	Efficacy	82lm/W	4	2.60	3.00	56	
349905	I <sub>max</sub> =1543cd/klm	I <sub>max</sub>	957cd	5	3.25	3.75	36

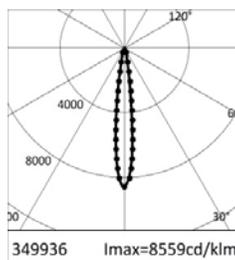
	4000K	H(m)	D1(m)	D2(m)	E <sub>max</sub> (lx)		
	Ra93		34°	40°			
	Fixture Power	8W	1	0.65	0.75	925	
	Source Flux	645lm	2	1.30	1.50	231	
	Fixture Flux	645lm	3	1.95	2.25	103	
	Efficacy	85lm/W	4	2.60	3.00	58	
349905	I <sub>max</sub> =1543cd/klm	I <sub>max</sub>	995cd	5	3.25	3.75	37

# DURAFLEX OPTICS – LUMA DUAL

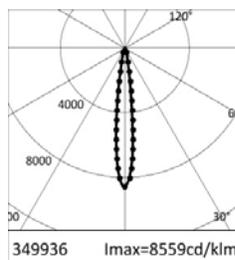
## PHOTOMETRY

IES FILES SHOWN AT 1M (3.28FT) LENGTHS

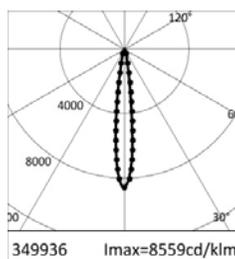
### 13° Optic



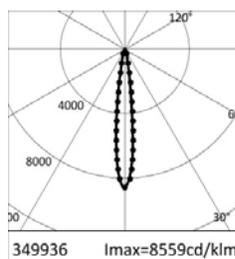
2700K	H(m)	D1(m)	D2(m)	Emax(lx)			
Ra94		13°	13°				
Fixture Power	8W	1	0.23	0.24	5446		
Source Flux	636lm	2	0.46	0.47	1361		
Fixture Flux	636lm	3	0.68	0.71	605		
Efficacy	84lm/W	4	0.91	0.94	340		
.349936	Imax=8559cd/klm	Imax	5446cd	5	1.14	1.18	218



3000K	H(m)	D1(m)	D2(m)	Emax(lx)			
Ra93		13°	13°				
Fixture Power	8W	1	0.23	0.24	5721		
Source Flux	668lm	2	0.46	0.47	1430		
Fixture Flux	668lm	3	0.68	0.71	636		
Efficacy	88lm/W	4	0.91	0.94	358		
.349936	Imax=8559cd/klm	Imax	5721cd	5	1.14	1.18	229

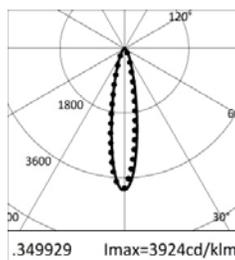


3500K	H(m)	D1(m)	D2(m)	Emax(lx)			
Ra93		13°	13°				
Fixture Power	8W	1	0.23	0.24	5850		
Source Flux	684lm	2	0.46	0.47	1462		
Fixture Flux	683lm	3	0.68	0.71	650		
Efficacy	90lm/W	4	0.91	0.94	366		
.349936	Imax=8559cd/klm	Imax	5850cd	5	1.14	1.18	234

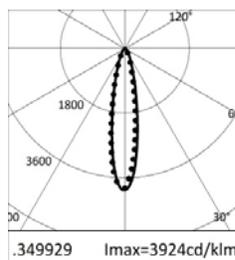


4000K	H(m)	D1(m)	D2(m)	Emax(lx)			
Ra93		13°	13°				
Fixture Power	8W	1	0.23	0.24	6034		
Source Flux	705lm	2	0.46	0.47	1508		
Fixture Flux	705lm	3	0.68	0.71	670		
Efficacy	93lm/W	4	0.91	0.94	377		
.349936	Imax=8559cd/klm	Imax	6034cd	5	1.14	1.18	241

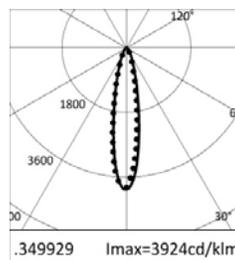
### 20° Optic



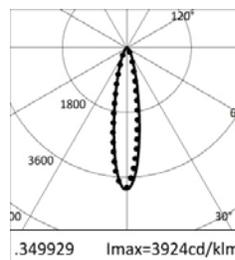
2700K	H(m)	D1(m)	D2(m)	Emax(lx)			
Ra94		21°	20°				
Fixture Power	8W	1	0.37	0.34	2497		
Source Flux	636lm	2	0.73	0.69	624		
Fixture Flux	636lm	3	1.10	1.03	277		
Efficacy	84lm/W	4	1.46	1.38	156		
.349929	Imax=3924cd/klm	Imax	2496cd	5	1.83	1.72	100



3000K	H(m)	D1(m)	D2(m)	Emax(lx)			
Ra93		21°	20°				
Fixture Power	8W	1	0.37	0.34	2630		
Source Flux	670lm	2	0.73	0.69	658		
Fixture Flux	670lm	3	1.10	1.03	292		
Efficacy	88lm/W	4	1.46	1.38	164		
.349929	Imax=3924cd/klm	Imax	2629cd	5	1.83	1.72	105



3500K	H(m)	D1(m)	D2(m)	Emax(lx)			
Ra93		21°	20°				
Fixture Power	8W	1	0.37	0.34	2689		
Source Flux	685lm	2	0.73	0.69	672		
Fixture Flux	685lm	3	1.10	1.03	299		
Efficacy	90lm/W	4	1.46	1.38	168		
.349929	Imax=3924cd/klm	Imax	2688cd	5	1.83	1.72	108



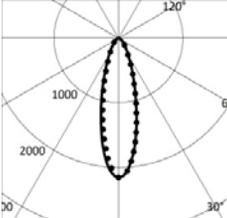
4000K	H(m)	D1(m)	D2(m)	Emax(lx)			
Ra93		21°	20°				
Fixture Power	8W	1	0.37	0.34	2774		
Source Flux	707lm	2	0.73	0.69	693		
Fixture Flux	707lm	3	1.10	1.03	308		
Efficacy	93lm/W	4	1.46	1.38	173		
.349929	Imax=3924cd/klm	Imax	2772cd	5	1.83	1.72	111

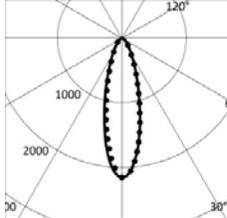
# DURAFLEX OPTICS – LUMA DUAL

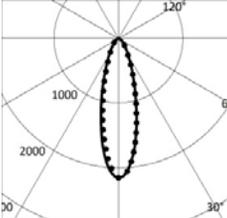
## PHOTOMETRY

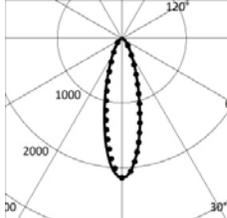
IES FILES SHOWN AT 1M (3.28FT) LENGTHS

### 30° Optic

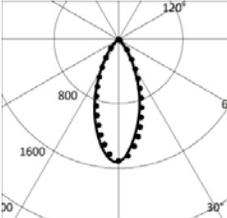
		2700K	H(m)	D1(m)	D2(m)	Emax(lx)	
		Ra94		29°	28°		
Fixture Power	8W	1	0.52	0.50	1367		
Source Flux	636lm	2	1.05	0.99	342		
Fixture Flux	636lm	3	1.57	1.49	152		
Efficacy	84lm/W	4	2.10	1.99	85		
349929	I <sub>max</sub> =2149cd/klm	I <sub>max</sub>	1367cd	5	2.62	2.48	55

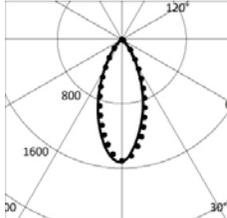
		3000K	H(m)	D1(m)	D2(m)	Emax(lx)	
		Ra93		29°	28°		
Fixture Power	8W	1	0.52	0.50	1440		
Source Flux	670lm	2	1.05	0.99	360		
Fixture Flux	670lm	3	1.57	1.49	160		
Efficacy	88lm/W	4	2.10	1.99	90		
349929	I <sub>max</sub> =2149cd/klm	I <sub>max</sub>	1440cd	5	2.62	2.48	58

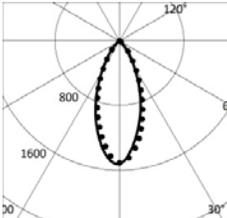
		3500K	H(m)	D1(m)	D2(m)	Emax(lx)	
		Ra93		29°	28°		
Fixture Power	8W	1	0.52	0.50	1472		
Source Flux	685lm	2	1.05	0.99	368		
Fixture Flux	685lm	3	1.57	1.49	164		
Efficacy	90lm/W	4	2.10	1.99	92		
349929	I <sub>max</sub> =2149cd/klm	I <sub>max</sub>	1472cd	5	2.62	2.48	59

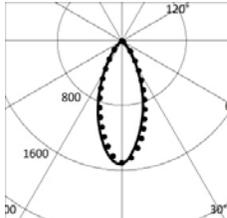
		4000K	H(m)	D1(m)	D2(m)	Emax(lx)	
		Ra93		29°	28°		
Fixture Power	8W	1	0.52	0.50	1518		
Source Flux	707lm	2	1.05	0.99	380		
Fixture Flux	707lm	3	1.57	1.49	169		
Efficacy	93lm/W	4	2.10	1.99	95		
349929	I <sub>max</sub> =2149cd/klm	I <sub>max</sub>	1518cd	5	2.62	2.48	61

### 40° Optic

		2700K	H(m)	D1(m)	D2(m)	Emax(lx)	
		Ra94		42°	43°		
Fixture Power	8W	1	0.77	0.78	970		
Source Flux	636lm	2	1.55	1.56	242		
Fixture Flux	636lm	3	2.32	2.34	108		
Efficacy	84lm/W	4	3.10	3.12	61		
349929	I <sub>max</sub> =1526cd/klm	I <sub>max</sub>	971cd	5	3.87	3.90	39

		3000K	H(m)	D1(m)	D2(m)	Emax(lx)	
		Ra93		42°	43°		
Fixture Power	8W	1	0.77	0.78	1021		
Source Flux	670lm	2	1.55	1.56	255		
Fixture Flux	670lm	3	2.32	2.34	113		
Efficacy	88lm/W	4	3.10	3.12	64		
349929	I <sub>max</sub> =1526cd/klm	I <sub>max</sub>	1022cd	5	3.87	3.90	41

		3500K	H(m)	D1(m)	D2(m)	Emax(lx)	
		Ra93		42°	43°		
Fixture Power	8W	1	0.77	0.78	1044		
Source Flux	685lm	2	1.55	1.56	261		
Fixture Flux	685lm	3	2.32	2.34	116		
Efficacy	90lm/W	4	3.10	3.12	65		
349929	I <sub>max</sub> =1526cd/klm	I <sub>max</sub>	1045cd	5	3.87	3.90	42

		4000K	H(m)	D1(m)	D2(m)	Emax(lx)	
		Ra93		42°	43°		
Fixture Power	8W	1	0.77	0.78	1077		
Source Flux	707lm	2	1.55	1.56	269		
Fixture Flux	706lm	3	2.32	2.34	120		
Efficacy	93lm/W	4	3.10	3.12	67		
349929	I <sub>max</sub> =1526cd/klm	I <sub>max</sub>	1078cd	5	3.87	3.90	43