

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P198271

Luminaire Tested: **TT-C1-LED-E1-RW-SG-LWR-LW-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198271
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND SCALED
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C1-LED-E1-RW-SG-LWR-LW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS
SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3150.5 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U4 - G1

Input Watts (W): 45.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

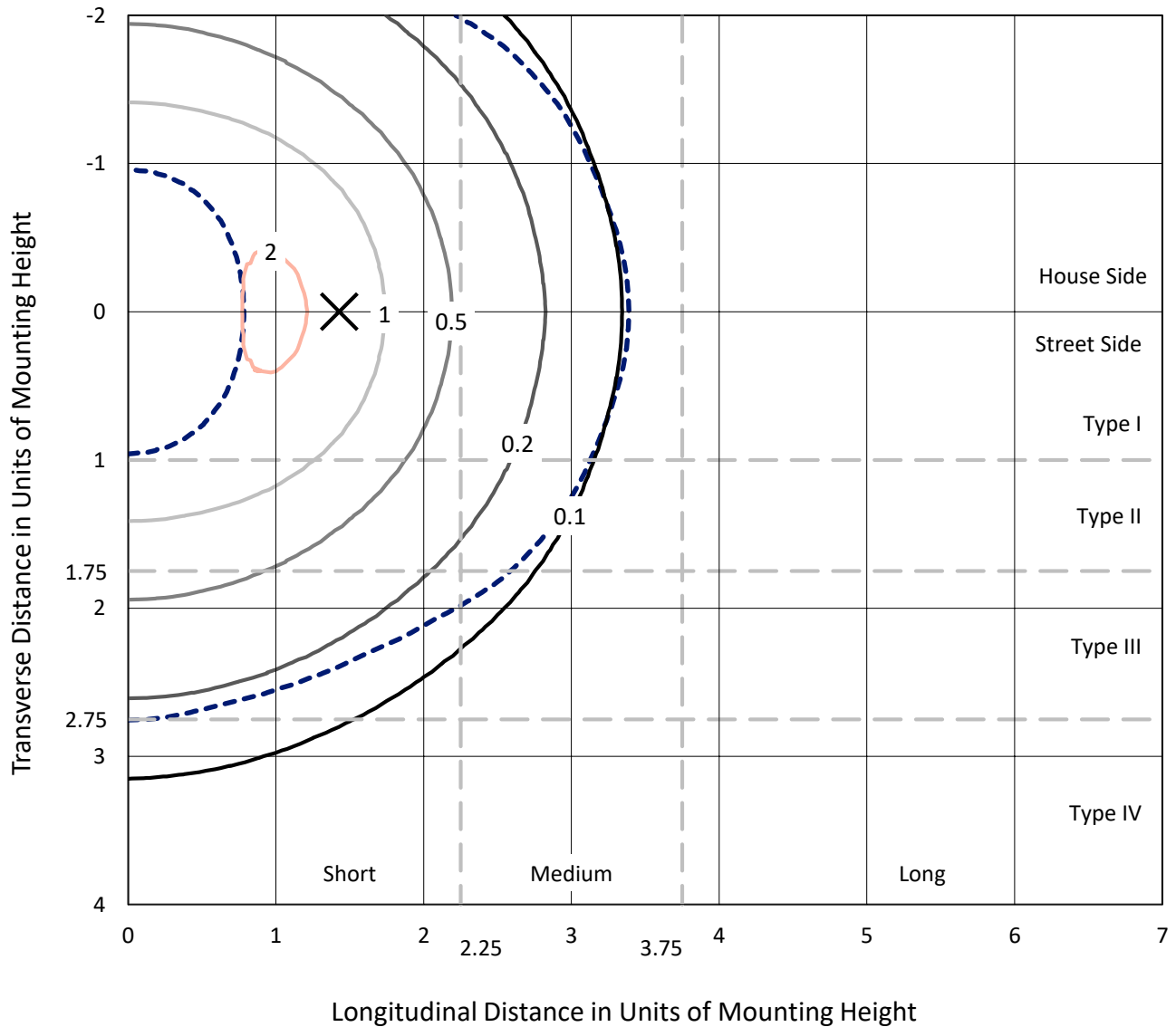


REPORT NUMBER: P198271

CATALOG NUMBER: TT-C1-LED-E1-RW-SG-LWR-LW-8030-UPL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

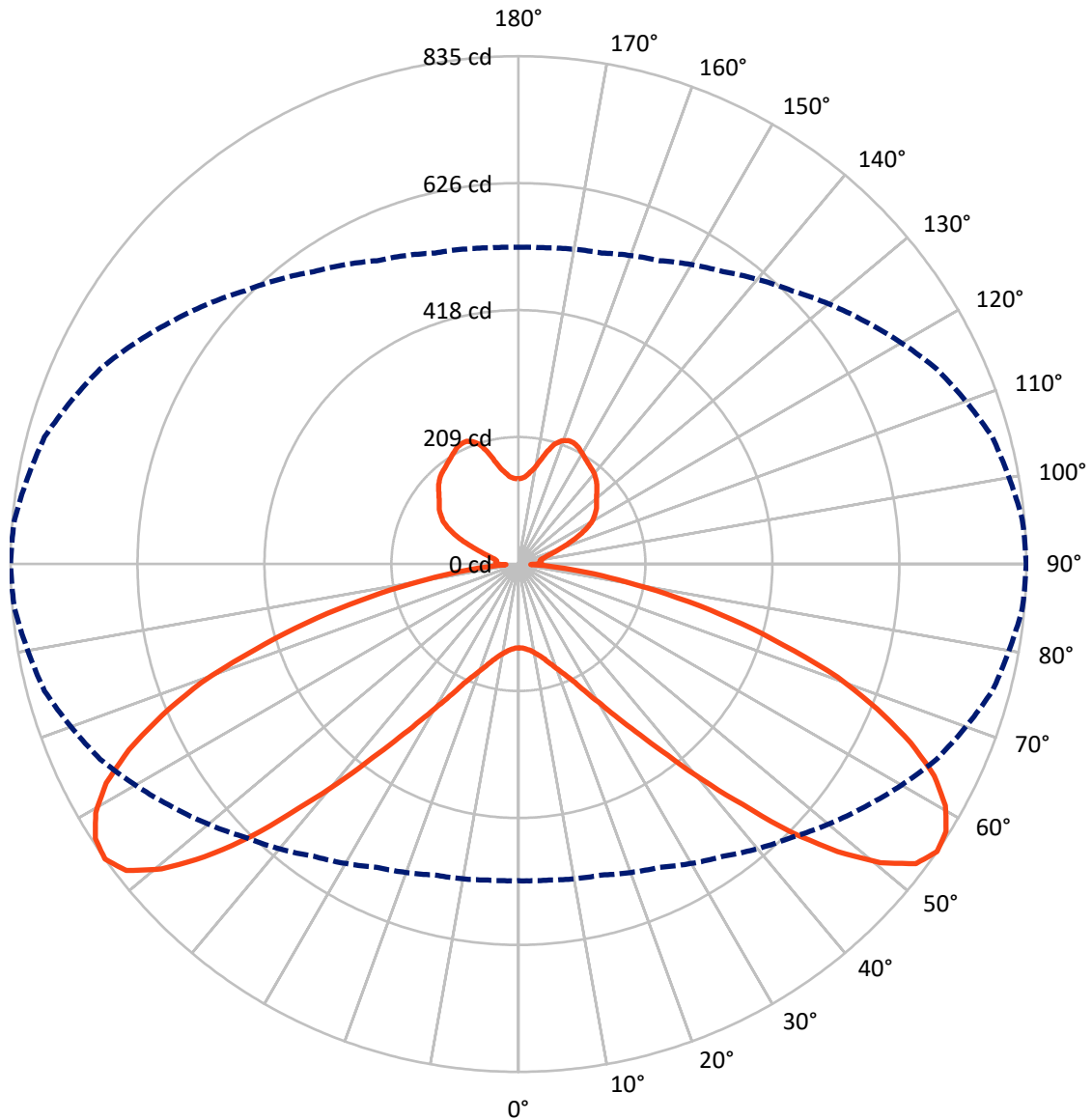


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P198271

CATALOG NUMBER: TT-C1-LED-E1-RW-SG-LWR-LW-8030-UPL

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P198271

CATALOG NUMBER: TT-C1-LED-E1-RW-SG-LWR-LW-8030-UPL

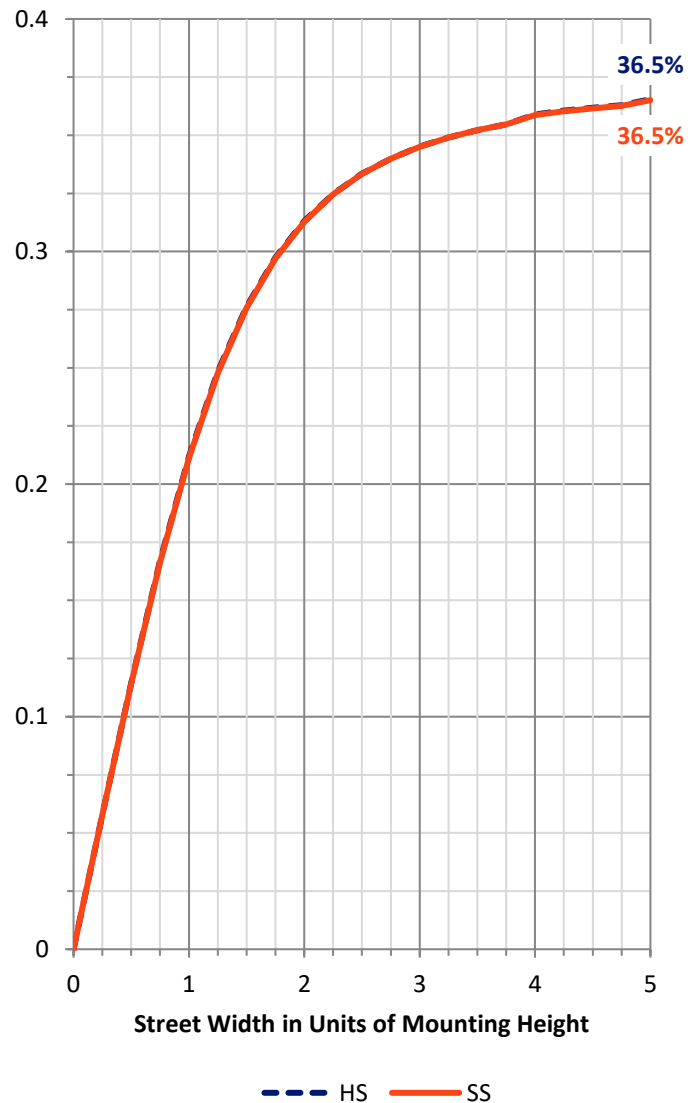
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1162.6	412.7	1575.3
	% Fixture	36.9	13.1	50.0
Street Side	Lumens	1162.6	412.7	1575.3
	% Fixture	36.9	13.1	50.0
Total	Lumens	2325.2	825.3	3150.5
	% Fixture	73.8	26.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.7	0.4
10°-20°	47.4	1.5
20°-30°	103.5	3.3
30°-40°	208.1	6.6
40°-50°	393.3	12.5
50°-60°	580.2	18.4
60°-70°	571.4	18.1
70°-80°	332.8	10.6
80°-90°	74.8	2.4
90°-100°	38.4	1.2
100°-110°	59.5	1.9
110°-120°	119.6	3.8
120°-130°	148.9	4.7
130°-140°	153.3	4.9
140°-150°	136.3	4.3
150°-160°	103.9	3.3
160°-170°	51.8	1.6
170°-180°	13.6	0.4
0°-90°	2325.2	73.8
0°-180°	3150.5	100.0



REPORT NUMBER: P198271

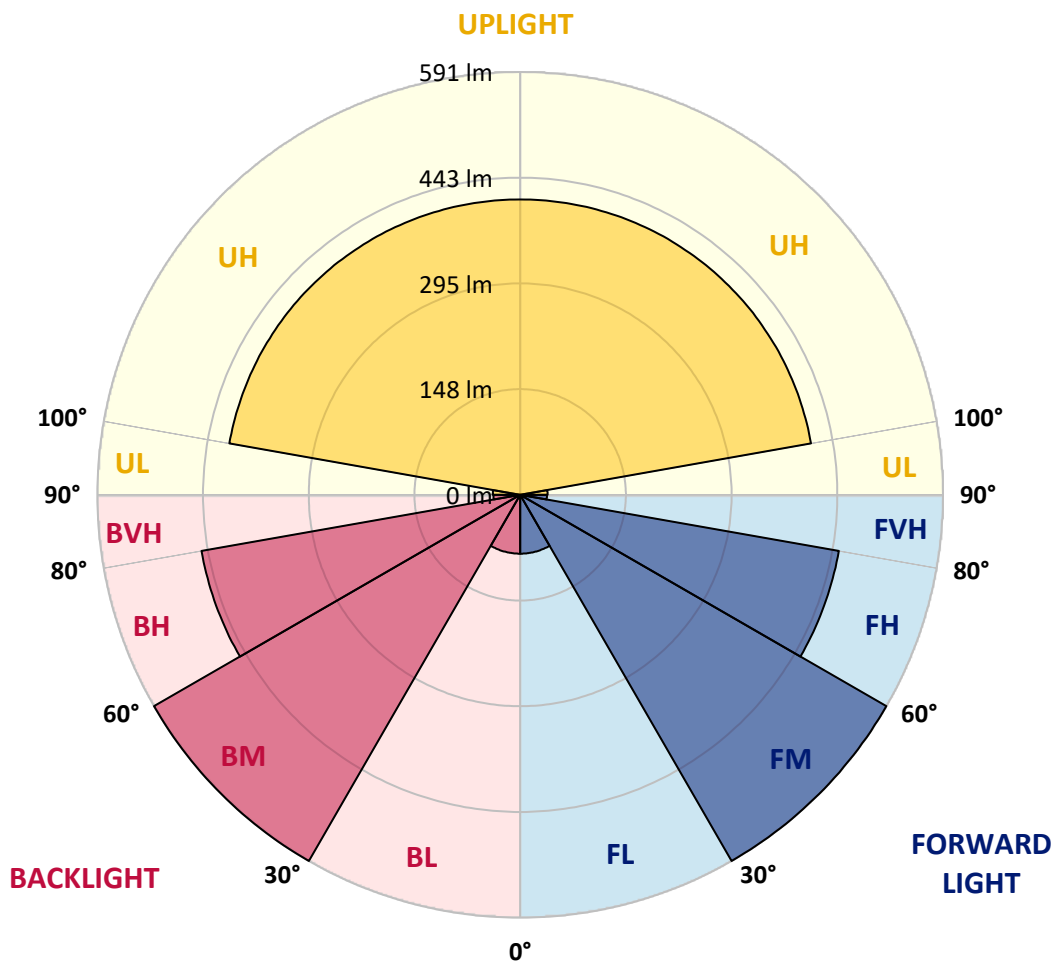
CATALOG NUMBER: TT-C1-LED-E1-RW-SG-LWR-LW-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.3	2.6			
FM	(30°-60°)	590.8	18.8			
FH	(60°-80°)	452.1	14.4			G0/660
FVH	(80°-90°)	37.4	1.2			G1/100
BL	(0°-30°)	82.3	2.6	B0/110		
BM	(30°-60°)	590.8	18.8	B1/1000		
BH	(60°-80°)	452.1	14.4	B1/500		G1/500
BVH	(80°-90°)	37.4	1.2			G1/100
UL	(90°-100°)	38.4	1.2		U2/50	
UH	(100°-180°)	412.7	13.1		U3/500	

BUG Rating: B1-U4-G1

Type III Short





REPORT NUMBER: P198271

CATALOG NUMBER: TT-C1-LED-E1-RW-SG-LWR-LW-8030-UPL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8
2.5°	138.9	138.9	138.9	138.9	138.4	138.9	138.4	138.4	138.4	138.4	138.4
5°	140.5	141.1	140.5	140.5	140.5	140.5	140.5	140.5	140.0	140.0	140.5
7.5°	144.3	144.3	144.3	144.3	143.7	144.3	143.7	143.7	143.7	143.7	143.7
10°	149.6	149.6	149.6	149.6	149.1	149.1	149.1	148.6	148.6	148.6	148.6
12.5°	156.1	156.6	156.6	156.1	155.5	155.5	155.0	155.0	155.0	155.0	154.5
15°	165.7	165.2	165.2	164.1	164.1	163.1	163.6	163.1	162.5	162.0	162.5
17.5°	175.4	175.9	175.9	174.9	174.3	173.8	172.7	172.7	172.2	172.7	172.7
20°	190.4	190.4	189.3	188.3	186.7	186.1	185.0	185.0	184.0	185.0	185.0
22.5°	205.4	205.4	204.4	203.8	201.7	200.1	199.5	199.0	198.5	199.5	198.5
25°	224.2	224.2	223.1	221.0	218.8	218.3	216.7	216.7	217.2	217.8	215.6
27.5°	243.5	244.0	243.0	241.4	239.2	237.1	237.1	237.6	238.1	240.3	239.7
30°	267.1	266.6	265.0	262.8	261.7	260.1	260.7	262.8	265.0	267.1	267.1
32.5°	291.2	290.7	290.2	288.0	287.5	286.9	289.6	293.9	298.2	299.8	302.5
35°	317.0	317.0	316.4	314.8	315.9	318.6	322.9	330.9	337.4	344.9	344.9
37.5°	345.4	344.3	344.9	344.9	347.6	352.4	362.6	378.1	391.5	399.0	399.0
40°	374.9	373.3	373.8	376.5	381.3	393.1	410.8	432.3	453.8	463.4	466.6
42.5°	403.3	401.7	403.9	406.6	418.4	436.6	462.9	495.6	526.2	541.2	540.6
45°	429.6	430.7	433.4	439.8	457.0	483.8	521.3	565.3	605.0	622.7	629.1
47.5°	455.9	456.4	460.2	471.5	495.6	529.4	575.0	633.4	677.4	698.3	706.4
50°	480.6	481.6	488.1	504.2	532.6	573.4	629.7	691.9	740.2	764.8	771.8
52.5°	502.6	503.6	511.1	531.0	564.8	612.0	671.0	734.8	785.8	814.2	818.5
55°	520.8	521.9	529.4	550.3	586.8	635.6	695.6	758.9	806.7	831.9	835.1
57.5°	531.5	532.1	540.1	561.6	597.5	643.1	701.0	762.2	804.0	826.5	829.2
60°	532.1	533.1	540.6	560.0	593.2	635.0	690.3	745.0	783.1	803.5	806.7
62.5°	522.4	522.9	529.4	544.4	572.8	609.3	660.2	709.6	743.9	763.8	767.5
65°	500.4	500.4	503.6	514.9	536.9	568.0	611.4	657.0	688.7	706.9	709.1
67.5°	463.9	463.9	464.5	472.0	487.0	511.7	548.7	586.8	615.2	633.4	636.1
70°	417.3	416.7	412.5	417.3	426.9	447.9	480.6	509.5	532.6	547.1	556.7
72.5°	358.3	356.1	352.9	351.8	361.5	379.7	406.6	426.4	439.3	454.8	455.9
75°	289.6	288.6	284.3	284.3	293.9	308.4	329.9	343.3	349.7	359.9	362.0
77.5°	216.1	215.6	217.2	217.8	223.1	238.7	251.0	260.7	259.1	265.5	267.6
80°	151.3	152.3	152.3	151.8	157.2	163.1	176.5	179.1	177.0	179.1	179.1
82.5°	96.0	95.5	94.4	96.0	100.3	105.1	110.5	111.0	112.6	111.0	112.1
85°	48.3	47.7	48.8	49.3	51.5	54.2	59.0	60.1	57.4	57.4	56.3
87.5°	16.6	17.7	16.6	17.2	17.2	19.8	19.3	19.3	19.3	19.3	20.4
90°	36.0	36.0	36.0	34.0	29.0	26.0	28.0	32.0	34.0	34.0	34.0
92.5°	40.0	39.0	38.0	34.0	29.0	27.0	28.0	32.0	35.0	36.0	36.0
95°	44.0	43.0	41.0	36.0	32.0	30.0	30.0	34.0	37.0	39.0	38.0
97.5°	42.0	42.0	40.0	37.0	35.0	33.0	33.0	34.0	36.0	36.0	36.0
100°	45.0	45.0	44.0	40.0	38.0	36.0	36.0	38.0	38.0	37.0	37.0
102.5°	51.0	51.0	49.0	46.0	44.0	42.0	43.0	44.0	42.0	41.0	41.0
105°	60.0	60.0	57.0	54.0	53.0	52.0	54.0	53.0	49.0	48.0	49.0
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	60.0
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	75.0



REPORT NUMBER: P198271

CATALOG NUMBER: TT-C1-LED-E1-RW-SG-LWR-LW-8030-UPL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.0
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	113.0
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	129.0
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	142.0
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	150.0
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.0
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	163.0
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.0
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	176.0
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.0
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.0
140°	229.0	226.0	216.0	200.0	207.0	213.0	212.0	217.0	209.0	195.0	195.0
142.5°	235.0	231.0	218.0	201.0	208.0	218.0	220.0	223.0	211.0	198.0	198.0
145°	235.0	230.0	218.0	202.0	211.0	223.0	230.0	227.0	211.0	201.0	202.0
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	206.0
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	211.0
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	216.0
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.0
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	219.0
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	215.0
162.5°	185.0	184.0	193.0	193.0	198.0	198.0	196.0	200.0	204.0	207.0	207.0
165°	169.0	167.0	173.0	173.0	176.0	177.0	176.0	181.0	185.0	190.0	192.0
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	174.0
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	160.0
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	151.0
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	144.0
177.5°	137.0	136.0	139.0	138.0	140.0	139.0	138.0	140.0	140.0	141.0	141.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)