

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: P198268

Luminaire Tested: **TT-C1-LED-E1-RW-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198268
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-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3378 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G2

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

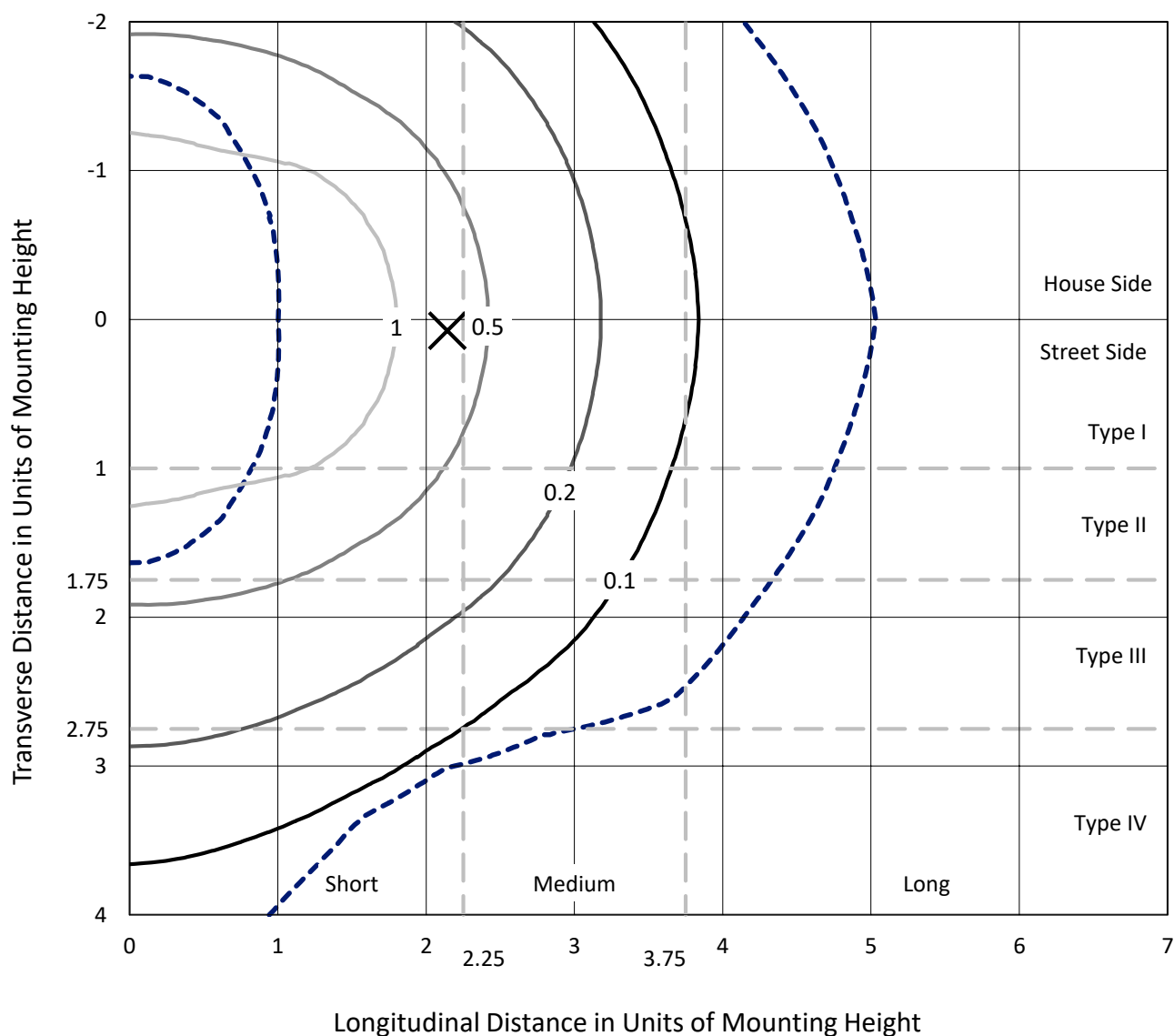


REPORT NUMBER: P198268

CATALOG NUMBER: TT-C1-LED-E1-RW-MS/DIM-8030-UPL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

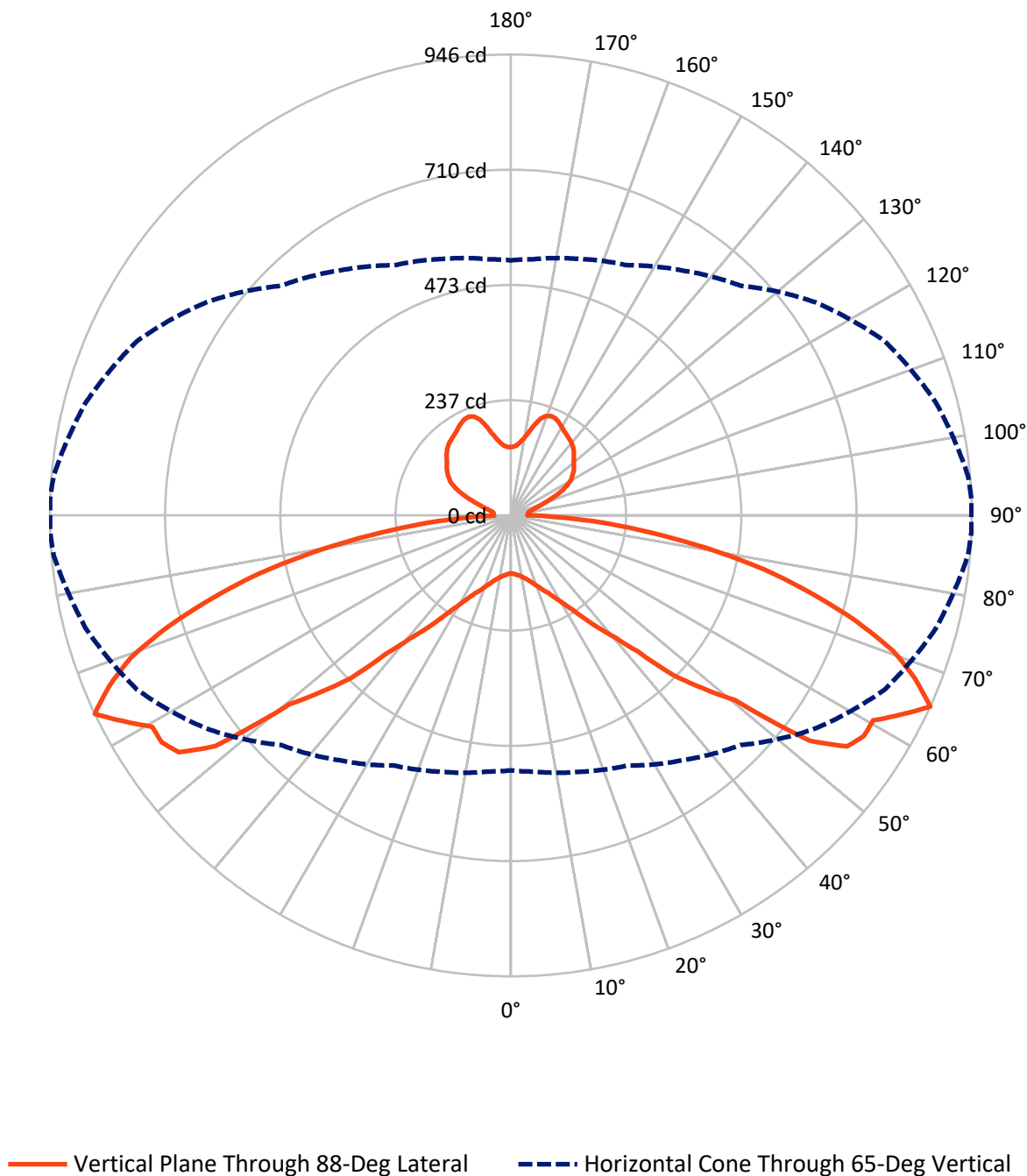


Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198268

CATALOG NUMBER: TT-C1-LED-E1-RW-MS/DIM-8030-UPL

Luminous Intensity Polar Plot



REPORT NUMBER: P198268

CATALOG NUMBER: TT-C1-LED-E1-RW-MS/DIM-8030-UPL

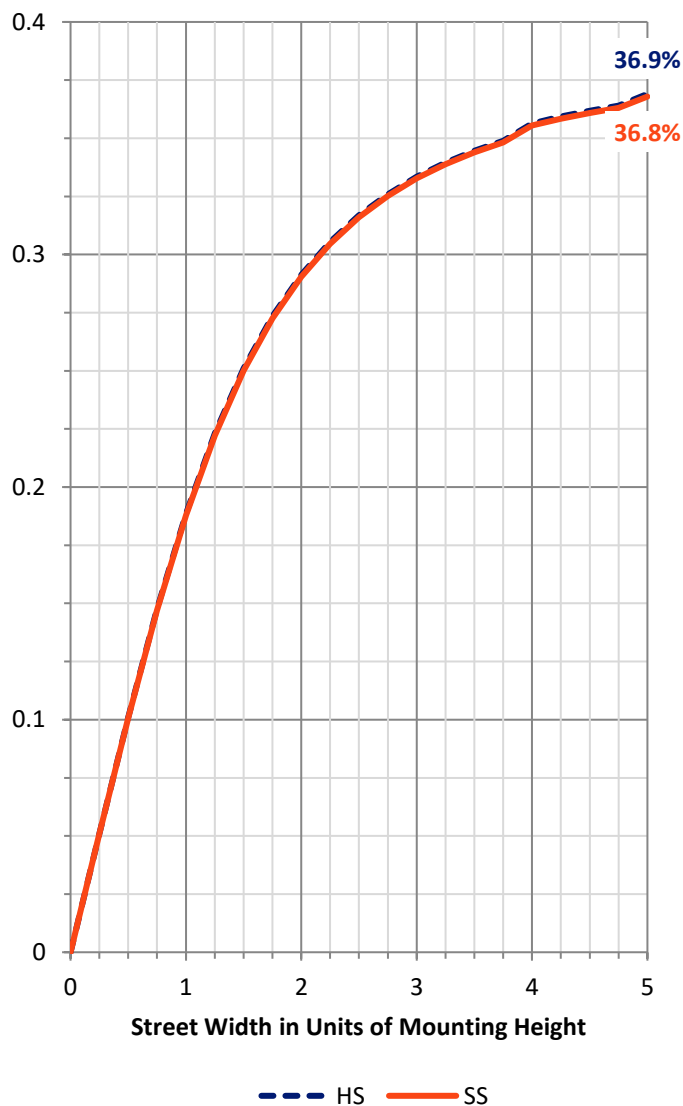
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1276.3	412.7	1689.0
	% Fixture	37.8	12.2	50.0
Street Side	Lumens	1276.3	412.7	1689.0
	% Fixture	37.8	12.2	50.0
Total	Lumens	2552.6	825.3	3378.0
	% Fixture	75.6	24.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	0.4
10°-20°	40.6	1.2
20°-30°	86.3	2.6
30°-40°	164.8	4.9
40°-50°	303.0	9.0
50°-60°	524.7	15.5
60°-70°	682.6	20.2
70°-80°	559.4	16.6
80°-90°	179.3	5.3
90°-100°	38.4	1.1
100°-110°	59.5	1.8
110°-120°	119.6	3.5
120°-130°	148.9	4.4
130°-140°	153.3	4.5
140°-150°	136.3	4.0
150°-160°	103.9	3.1
160°-170°	51.8	1.5
170°-180°	13.6	0.4
0°-90°	2552.6	75.6
0°-180°	3378.0	100.0

Coefficient of Utilization



REPORT NUMBER: P198268

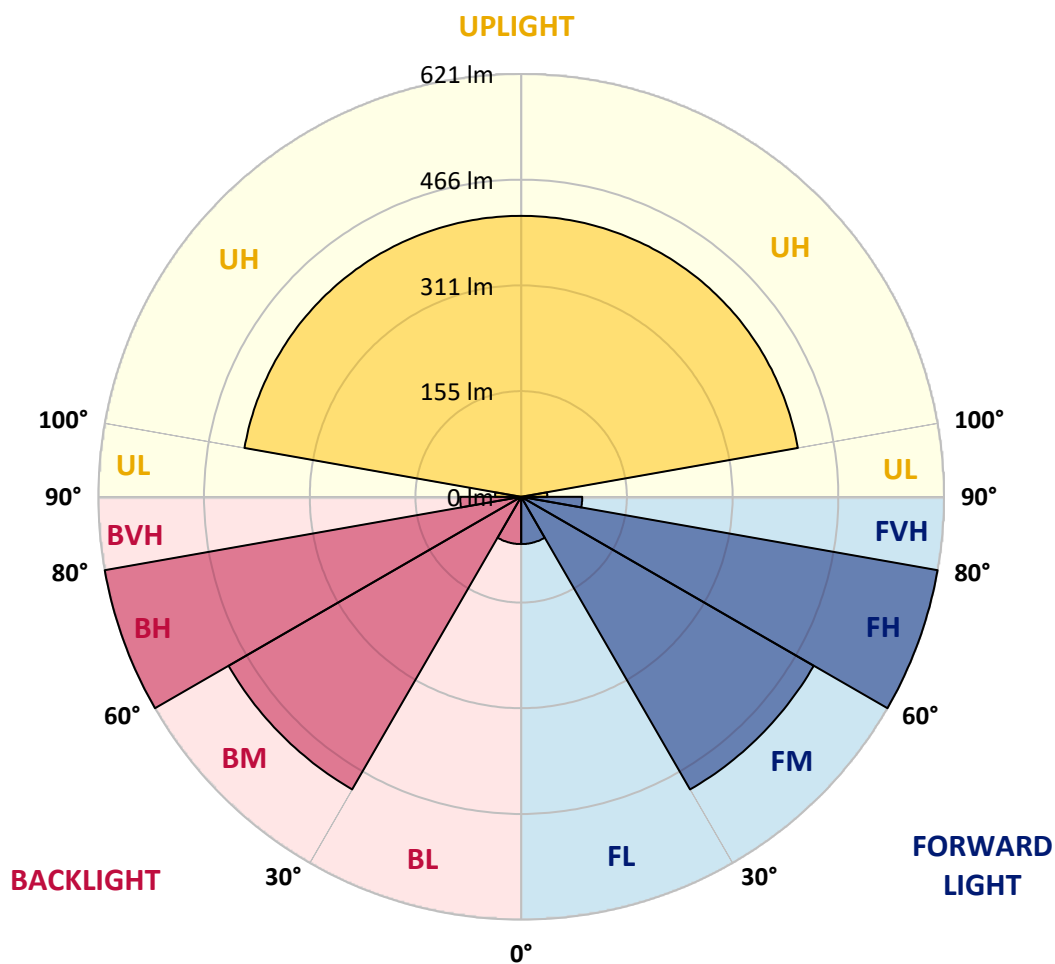
CATALOG NUMBER: TT-C1-LED-E1-RW-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	69.4	2.1			
FM	(30°-60°)	496.2	14.7			
FH	(60°-80°)	621.0	18.4			G0/660
FVH	(80°-90°)	89.6	2.7			G1/100
BL	(0°-30°)	69.4	2.1	B0/110		
BM	(30°-60°)	496.2	14.7	B1/1000		
BH	(60°-80°)	621.0	18.4	B2/1000		G2/1000
BVH	(80°-90°)	89.6	2.7			G1/100
UL	(90°-100°)	38.4	1.1		U2/50	
UH	(100°-180°)	412.7	12.2		U3/500	

BUG Rating: B2-U4-G2

Type IV Short



REPORT NUMBER: P198268

CATALOG NUMBER: TT-C1-LED-E1-RW-MS/DIM-8030-UPL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1
2.5°	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1	120.1
5°	122.3	122.3	122.3	122.8	122.8	122.8	122.8	122.8	122.3	122.3	122.3
7.5°	125.0	125.0	125.5	125.5	125.5	125.5	125.0	125.0	124.4	124.4	124.4
10°	129.3	129.3	129.8	129.8	129.3	128.7	128.7	128.7	128.2	128.2	128.2
12.5°	135.2	135.2	135.7	135.2	134.6	134.1	134.1	133.6	133.0	133.0	133.0
15°	143.2	143.2	142.7	141.6	140.5	140.5	138.9	138.9	138.9	138.9	138.4
17.5°	153.9	153.4	151.3	150.7	149.1	148.0	147.0	146.4	145.9	145.9	146.4
20°	165.7	164.7	162.0	162.0	159.3	157.7	156.6	155.5	155.5	155.0	154.5
22.5°	179.7	178.6	175.4	174.3	171.6	169.0	167.9	165.2	164.7	164.7	165.2
25°	193.6	194.2	191.5	189.3	185.6	182.9	179.1	177.5	175.9	175.9	174.9
27.5°	209.7	210.2	207.0	204.4	201.1	195.8	193.6	191.5	189.9	190.9	189.9
30°	226.9	227.9	225.3	222.0	217.2	211.9	209.2	208.6	207.0	208.1	207.6
32.5°	246.7	246.2	244.6	241.4	234.9	230.6	228.5	227.9	229.0	229.6	229.0
35°	269.8	267.6	266.0	261.2	255.3	252.1	249.9	252.1	256.9	260.1	259.1
37.5°	293.9	290.7	289.1	283.7	278.4	276.8	279.4	283.7	288.6	292.8	292.8
40°	313.8	314.8	311.1	306.3	302.0	303.6	308.4	315.9	325.6	329.9	329.3
42.5°	333.6	336.8	333.1	328.2	328.8	333.6	340.6	354.5	376.0	382.4	381.9
45°	351.3	358.3	355.1	351.8	356.7	364.7	383.5	414.6	444.1	466.1	467.7
47.5°	374.4	378.1	376.5	376.5	384.0	402.8	431.2	474.7	505.8	526.7	529.9
50°	400.7	396.9	397.4	402.3	421.0	448.9	487.5	528.3	584.1	593.7	596.4
52.5°	422.6	416.2	420.0	429.1	456.4	491.8	540.1	623.8	695.1	759.5	768.6
55°	445.2	437.7	445.2	459.7	499.9	549.2	620.0	717.1	792.2	832.4	837.2
57.5°	462.3	461.3	472.0	492.9	542.3	608.2	688.1	771.3	821.7	850.1	854.4
60°	483.8	484.9	497.2	525.1	584.1	647.4	706.9	783.1	833.0	849.6	854.4
62.5°	504.2	508.5	522.9	554.6	606.1	654.3	711.7	804.0	867.3	903.2	900.0
65°	523.5	527.8	544.9	566.4	613.6	666.7	762.7	846.4	902.1	941.8	946.1
67.5°	542.8	548.2	555.1	572.3	617.9	667.8	750.9	821.2	866.2	893.6	895.2
70°	559.4	558.9	557.3	562.1	590.5	629.1	706.4	762.2	804.5	827.1	832.4
72.5°	561.6	560.0	541.2	527.2	536.4	566.9	640.9	685.5	717.6	736.4	740.2
75°	543.9	534.7	497.7	467.7	466.1	496.7	558.9	591.1	610.4	634.5	636.1
77.5°	486.5	476.3	435.0	394.2	394.2	414.1	466.1	483.3	507.4	525.6	530.5
80°	392.1	391.0	348.1	315.9	304.1	320.7	363.1	369.5	387.8	403.3	408.2
82.5°	283.7	275.7	252.1	224.7	215.1	225.8	254.8	261.2	268.2	282.1	288.0
85°	171.6	172.2	156.1	140.5	128.2	131.9	154.5	163.6	172.7	181.8	185.0
87.5°	61.7	71.3	55.8	49.3	42.9	40.8	47.7	59.0	69.2	82.1	89.0
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	38.4
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	48.6
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	59.6
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	74.6

REPORT NUMBER: P198268

CATALOG NUMBER: TT-C1-LED-E1-RW-MS/DIM-8030-UPL

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.4
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	114.2
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	130.6
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	143.2
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	151.2
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.8
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	164.2
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.8
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	177.2
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.4
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.4
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	201.6
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	205.2
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	210.6
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	215.6
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.4
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	220.2
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	216.2
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	191.2
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	173.2
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	159.6
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	150.2
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	143.6
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

REPORT NUMBER: P198268

CATALOG NUMBER: TT-C1-LED-E1-RW-MS/DIM-8030-UPL

CANDELA DISTRIBUTION (continued):

	90°
0°	119.1
2.5°	120.1
5°	121.8
7.5°	124.4
10°	128.2
12.5°	133.0
15°	138.4
17.5°	145.4
20°	154.5
22.5°	164.1
25°	175.4
27.5°	190.9
30°	207.0
32.5°	229.0
35°	261.7
37.5°	292.8
40°	330.9
42.5°	384.0
45°	469.8
47.5°	529.4
50°	601.3
52.5°	761.1
55°	838.9
57.5°	855.5
60°	854.4
62.5°	908.6
65°	945.6
67.5°	896.2
70°	834.6
72.5°	738.6
75°	639.9
77.5°	533.1
80°	410.3
82.5°	285.9
85°	192.6
87.5°	79.4
90°	34.0
92.5°	36.0
95°	38.0
97.5°	36.0
100°	37.0
102.5°	41.0
105°	49.0
107.5°	60.0
110°	75.0

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CANDELA DISTRIBUTION (continued):

	90°
112.5°	94.0
115°	113.0
117.5°	129.0
120°	142.0
122.5°	150.0
125°	158.0
127.5°	163.0
130°	169.0
132.5°	176.0
135°	184.0
137.5°	190.0
140°	195.0
142.5°	198.0
145°	202.0
147.5°	206.0
150°	211.0
152.5°	216.0
155°	219.0
157.5°	219.0
160°	215.0
162.5°	207.0
165°	192.0
167.5°	174.0
170°	160.0
172.5°	151.0
175°	144.0
177.5°	141.0
180°	140.0

(END OF REPORT)