

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: P198400

Luminaire Tested: **TT-C3-LED-E1-RW-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198400
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-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: 4896.1 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G2

Input Watts (W): 62.4
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

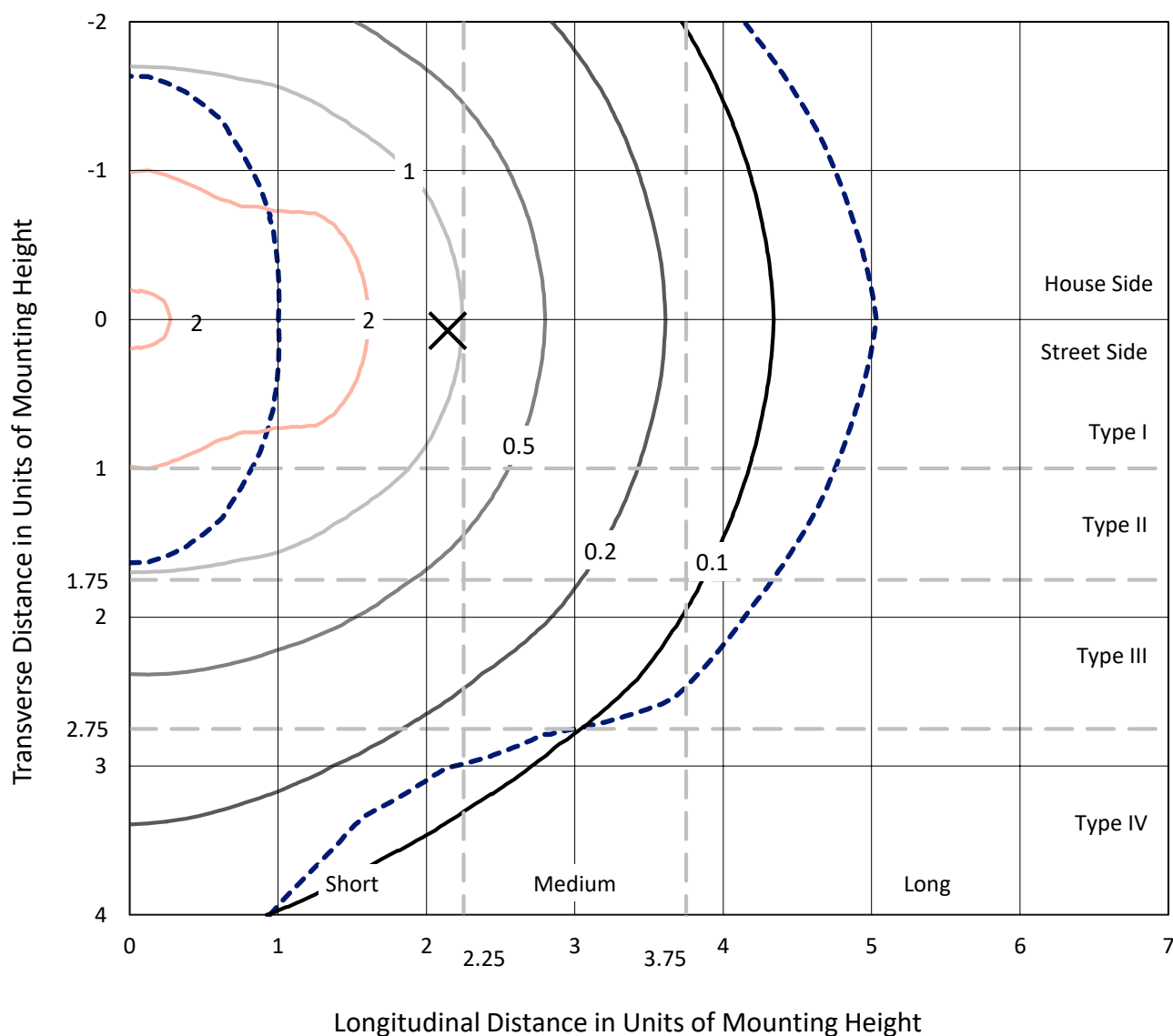


REPORT NUMBER: P198400

CATALOG NUMBER: TT-C3-LED-E1-RW-MS/DIM-8030-UPL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

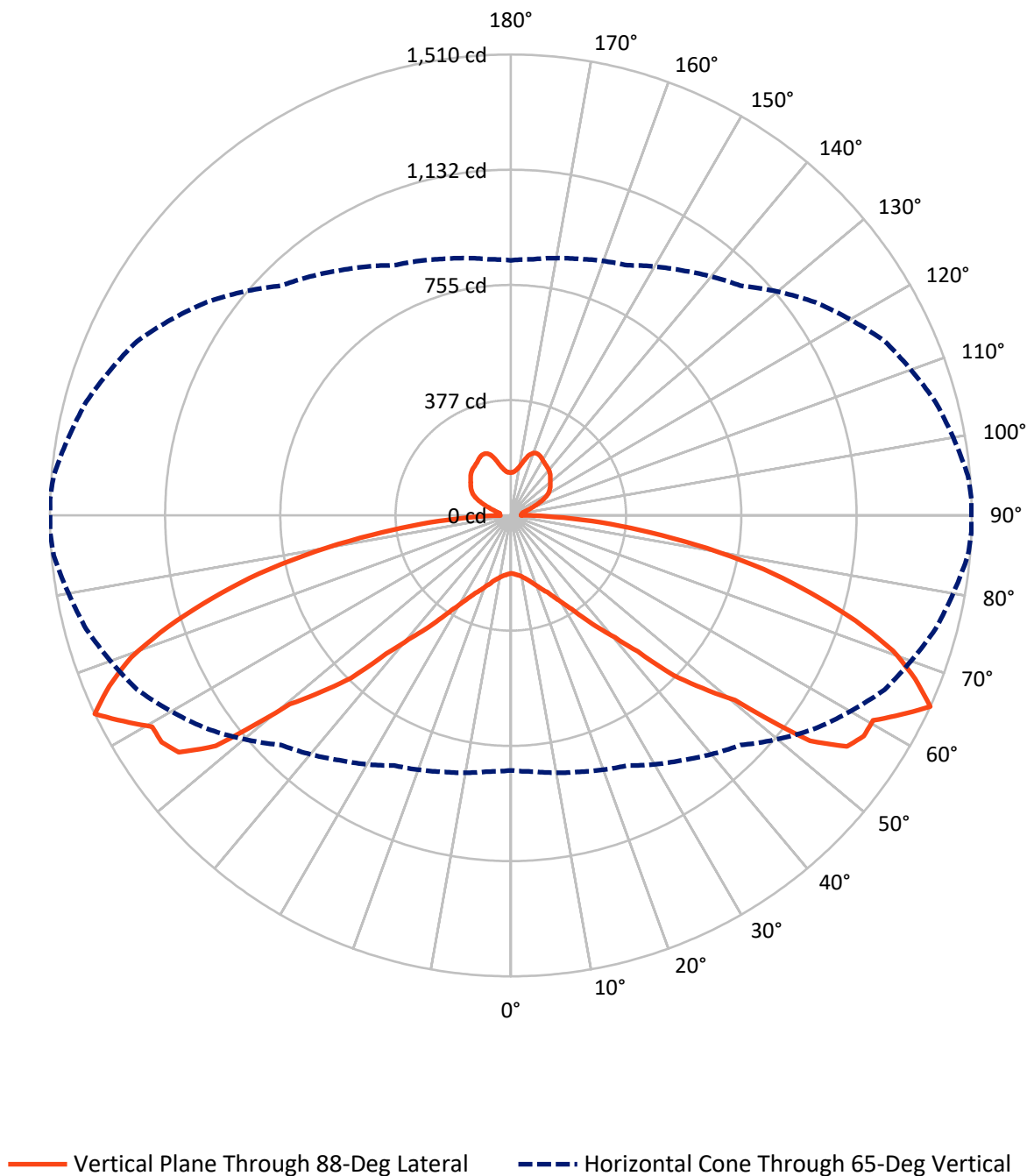


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P198400

CATALOG NUMBER: TT-C3-LED-E1-RW-MS/DIM-8030-UPL

Luminous Intensity Polar Plot



REPORT NUMBER: P198400

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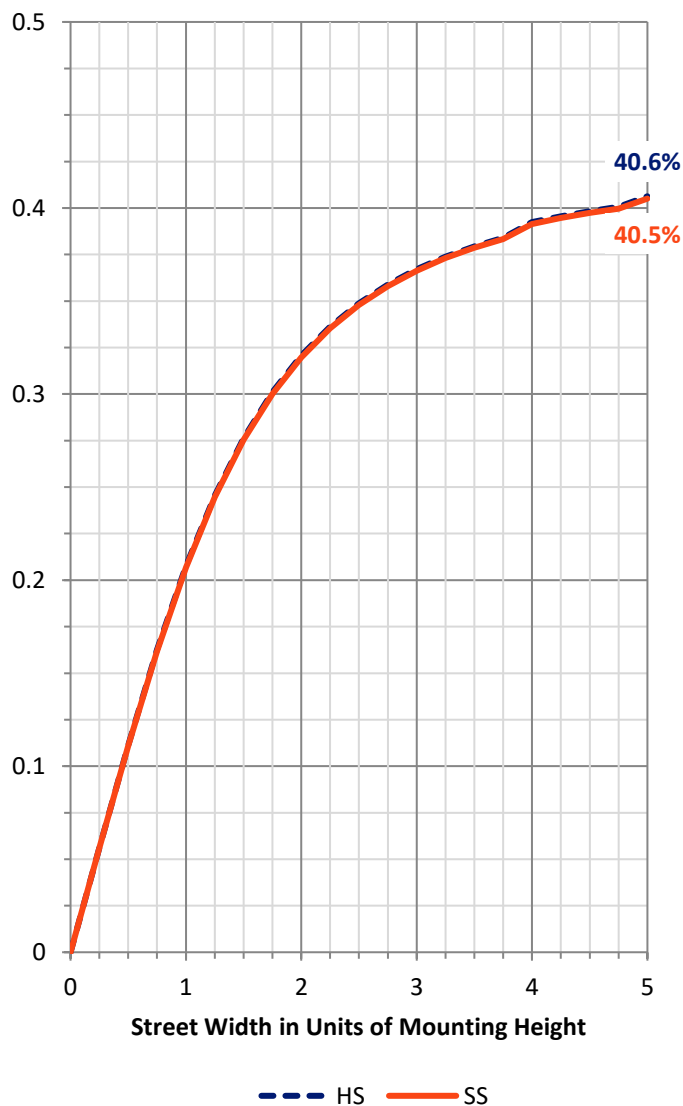
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2035.4	412.7	2448.0
	% Fixture	41.6	8.4	50.0
Street Side	Lumens	2035.4	412.7	2448.0
	% Fixture	41.6	8.4	50.0
Total	Lumens	4070.8	825.3	4896.1
	% Fixture	83.1	16.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	0.4
10°-20°	64.8	1.3
20°-30°	137.7	2.8
30°-40°	263.0	5.4
40°-50°	483.5	9.9
50°-60°	837.3	17.1
60°-70°	1089.3	22.2
70°-80°	892.7	18.2
80°-90°	283.5	5.8
90°-100°	38.4	0.8
100°-110°	59.5	1.2
110°-120°	119.6	2.4
120°-130°	148.9	3.0
130°-140°	153.3	3.1
140°-150°	136.3	2.8
150°-160°	103.9	2.1
160°-170°	51.8	1.1
170°-180°	13.6	0.3
0°-90°	4070.8	83.1
0°-180°	4896.1	100.0

Coefficient of Utilization



REPORT NUMBER: P198400

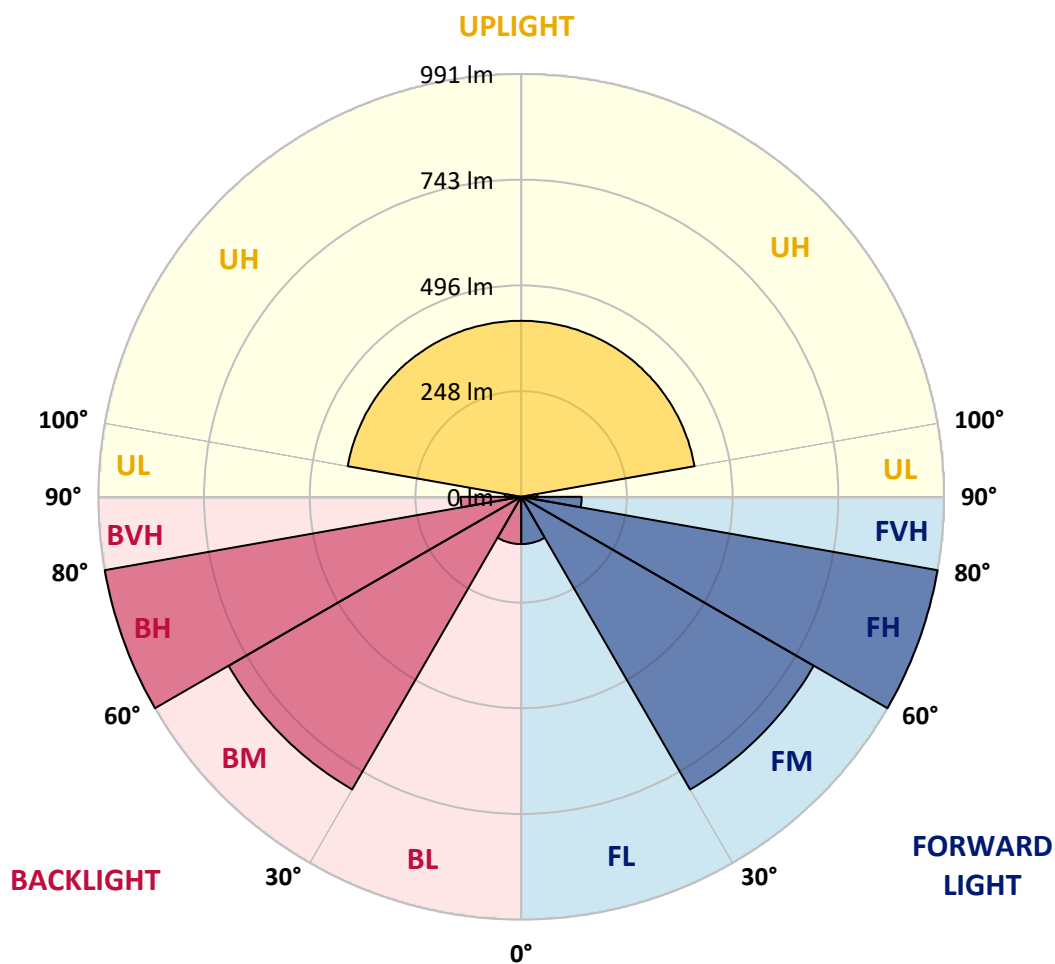
CATALOG NUMBER: TT-C3-LED-E1-RW-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	110.7	2.3			
FM	(30°-60°)	791.9	16.2			
FH	(60°-80°)	991.0	20.2			G1/1800
FVH	(80°-90°)	141.7	2.9			G2/225
BL	(0°-30°)	110.7	2.3	B1/500		
BM	(30°-60°)	791.9	16.2	B1/1000		
BH	(60°-80°)	991.0	20.2	B2/1000		G2/1000
BVH	(80°-90°)	141.7	2.9			G2/225
UL	(90°-100°)	38.4	0.8		U2/50	
UH	(100°-180°)	412.7	8.4		U3/500	

BUG Rating: B2-U4-G2

Type IV Short



REPORT NUMBER: P198400

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
2.5°	191.7	191.7	191.7	191.7	191.7	191.7	191.7	191.7	191.7	191.7	191.7
5°	195.1	195.1	195.1	196.0	196.0	196.0	196.0	196.0	195.1	195.1	195.1
7.5°	199.4	199.4	200.3	200.3	200.3	200.3	199.4	199.4	198.6	198.6	198.6
10°	206.3	206.3	207.1	207.1	206.3	205.4	205.4	205.4	204.6	204.6	204.6
12.5°	215.7	215.7	216.5	215.7	214.8	214.0	214.0	213.1	212.3	212.3	212.3
15°	228.5	228.5	227.7	226.0	224.2	224.2	221.7	221.7	221.7	221.7	220.8
17.5°	245.6	244.8	241.4	240.5	237.9	236.2	234.5	233.7	232.8	232.8	233.7
20°	264.5	262.8	258.5	258.5	254.2	251.6	249.9	248.2	248.2	247.4	246.5
22.5°	286.7	285.0	279.9	278.2	273.9	269.6	267.9	263.6	262.8	262.8	263.6
25°	309.0	309.8	305.6	302.1	296.1	291.9	285.9	283.3	280.7	280.7	279.0
27.5°	334.7	335.5	330.4	326.1	321.0	312.4	309.0	305.6	303.0	304.7	303.0
30°	362.0	363.8	359.5	354.3	346.6	338.1	333.8	332.9	330.4	332.1	331.2
32.5°	393.7	392.9	390.3	385.1	374.9	368.0	364.6	363.8	365.5	366.3	365.5
35°	430.5	427.1	424.5	416.8	407.4	402.3	398.8	402.3	410.0	415.1	413.4
37.5°	469.0	463.9	461.3	452.8	444.2	441.6	445.9	452.8	460.5	467.3	467.3
40°	500.7	502.4	496.4	488.7	481.9	484.4	492.1	504.1	519.5	526.4	525.5
42.5°	532.4	537.5	531.5	523.8	524.7	532.4	543.5	565.7	600.0	610.2	609.4
45°	560.6	571.7	566.6	561.5	569.2	582.0	612.0	661.6	708.7	743.8	746.3
47.5°	597.4	603.4	600.8	600.8	612.8	642.8	688.1	757.5	807.1	840.5	845.6
50°	639.3	633.4	634.2	641.9	671.9	716.4	778.0	843.0	932.1	947.5	951.7
52.5°	674.4	664.2	670.2	684.7	728.4	784.8	861.9	995.4	1109.2	1211.9	1226.5
55°	710.4	698.4	710.4	733.5	797.7	876.4	989.4	1144.3	1264.1	1328.3	1336.0
57.5°	737.8	736.1	753.2	786.6	865.3	970.6	1098.1	1230.8	1311.2	1356.6	1363.4
60°	772.0	773.7	793.4	837.9	932.1	1033.1	1128.1	1249.6	1329.2	1355.7	1363.4
62.5°	804.5	811.4	834.5	885.0	967.2	1044.2	1135.8	1283.0	1384.0	1441.3	1436.2
65°	835.3	842.2	869.6	903.8	979.1	1063.9	1217.1	1350.6	1439.6	1502.9	1509.8
67.5°	866.2	874.7	885.8	913.2	986.0	1065.6	1198.2	1310.4	1382.3	1425.9	1428.5
70°	892.7	891.8	889.3	897.0	942.3	1004.0	1127.2	1216.2	1283.8	1319.8	1328.3
72.5°	896.1	893.5	863.6	841.3	855.9	904.7	1022.8	1093.8	1145.2	1175.1	1181.1
75°	867.9	853.3	794.3	746.3	743.8	792.5	891.8	943.2	974.0	1012.5	1015.1
77.5°	776.3	760.0	694.1	629.1	629.1	660.7	743.8	771.2	809.7	838.8	846.5
80°	625.7	623.9	555.5	504.1	485.3	511.8	579.4	589.7	618.8	643.6	651.3
82.5°	452.8	439.9	402.3	358.6	343.2	360.3	406.5	416.8	427.9	450.2	459.6
85°	273.9	274.7	249.1	224.2	204.6	210.5	246.5	261.0	275.6	290.1	295.3
87.5°	98.4	113.8	89.0	78.7	68.5	65.0	76.2	94.1	110.4	131.0	142.1
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: P198400

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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: P198400

CATALOG NUMBER: TT-C3-LED-E1-RW-MS/DIM-8030-UPL

CANDELA DISTRIBUTION (continued):

	90°
0°	190.0
2.5°	191.7
5°	194.3
7.5°	198.6
10°	204.6
12.5°	212.3
15°	220.8
17.5°	231.9
20°	246.5
22.5°	261.9
25°	279.9
27.5°	304.7
30°	330.4
32.5°	365.5
35°	417.7
37.5°	467.3
40°	528.1
42.5°	612.8
45°	749.8
47.5°	844.8
50°	959.4
52.5°	1214.5
55°	1338.6
57.5°	1365.1
60°	1363.4
62.5°	1449.9
65°	1508.9
67.5°	1430.2
70°	1331.8
72.5°	1178.6
75°	1021.1
77.5°	850.7
80°	654.8
82.5°	456.2
85°	307.3
87.5°	126.7
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)