

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: P198371

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198371
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-DL-CG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4555.2 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G2

Input Watts (W): 83.9
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



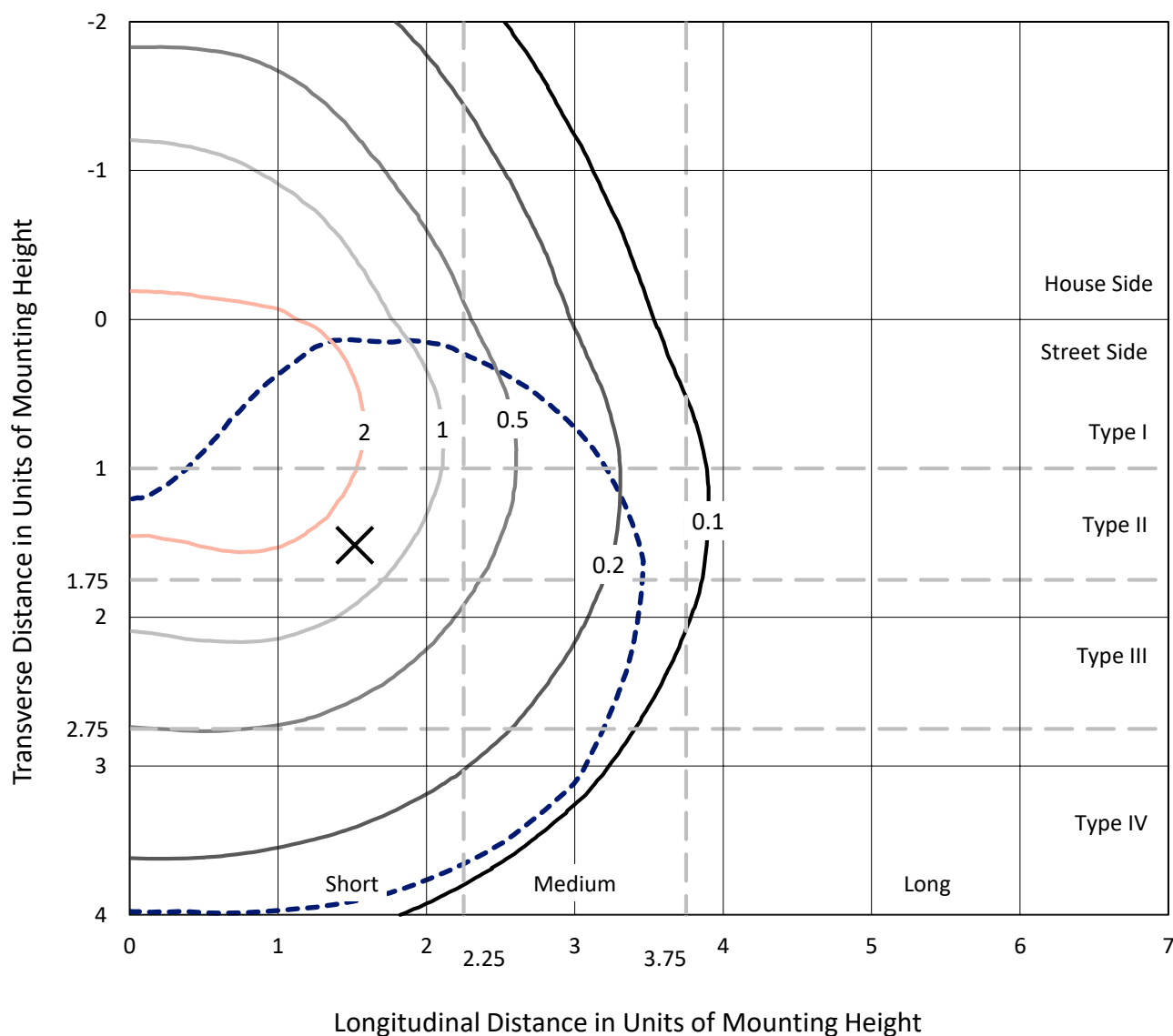
REPORT NUMBER: P198371

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

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

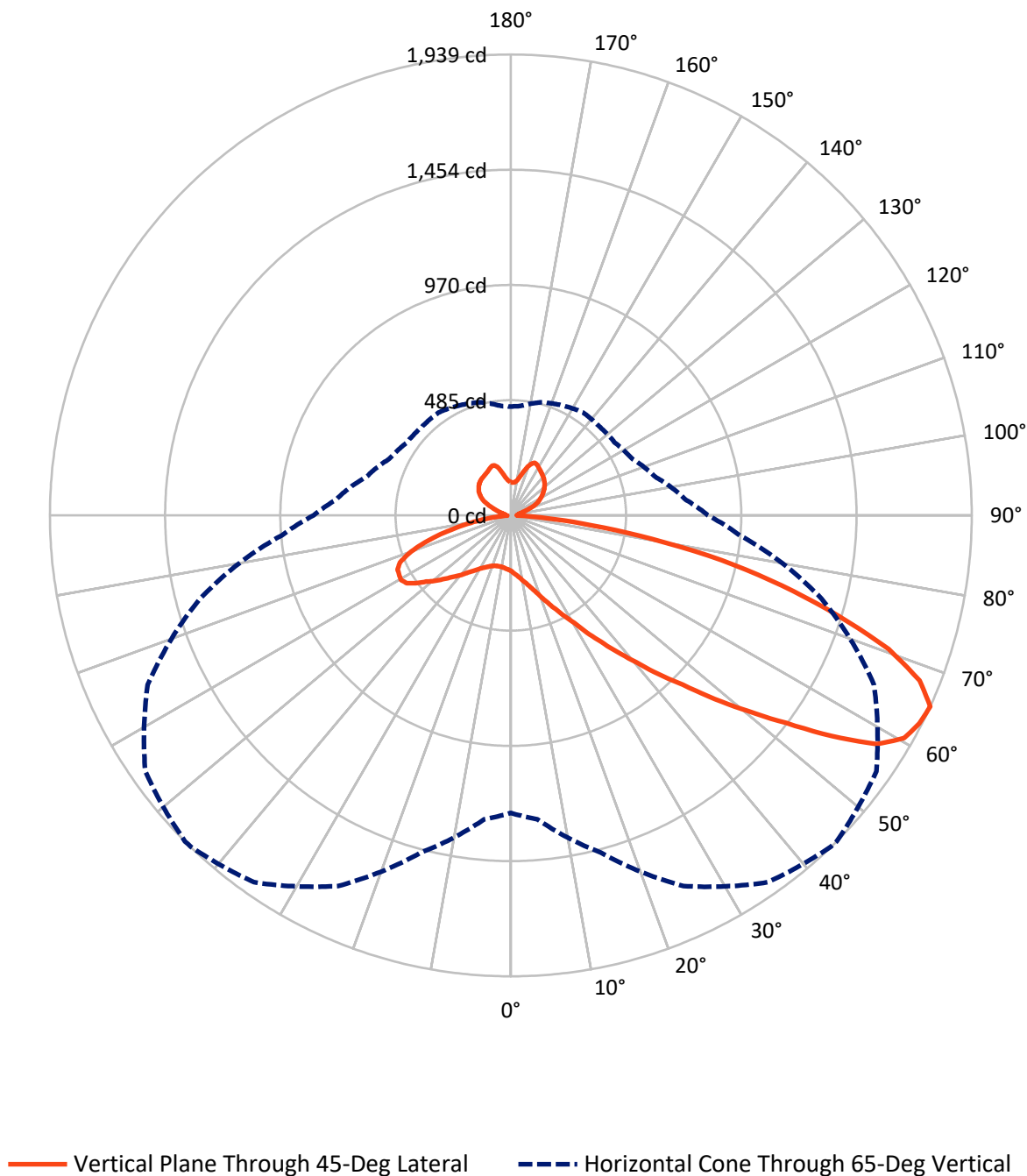


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198371

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

Luminous Intensity Polar Plot



REPORT NUMBER: P198371

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

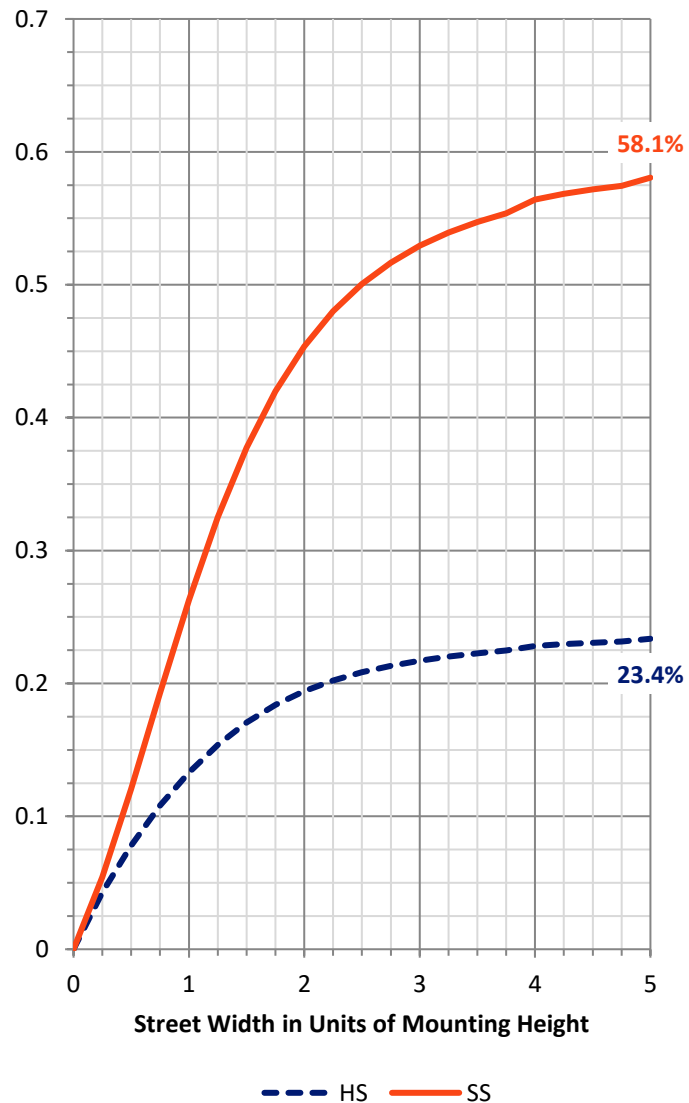
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1076.1	387.3	1463.5
	% Fixture	23.6	8.5	32.1
Street Side	Lumens	2679.1	412.6	3091.8
	% Fixture	58.8	9.1	67.9
Total	Lumens	3755.3	800.0	4555.2
	% Fixture	82.4	17.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	0.5
10°-20°	76.8	1.7
20°-30°	155.9	3.4
30°-40°	286.9	6.3
40°-50°	508.1	11.2
50°-60°	833.6	18.3
60°-70°	1024.2	22.5
70°-80°	704.7	15.5
80°-90°	141.8	3.1
90°-100°	36.3	0.8
100°-110°	55.2	1.2
110°-120°	110.8	2.4
120°-130°	144.2	3.2
130°-140°	148.0	3.2
140°-150°	133.4	2.9
150°-160°	102.6	2.3
160°-170°	55.1	1.2
170°-180°	14.3	0.3
0°-90°	3755.3	82.4
0°-180°	4555.2	100.0

Coefficient of Utilization



REPORT NUMBER: P198371

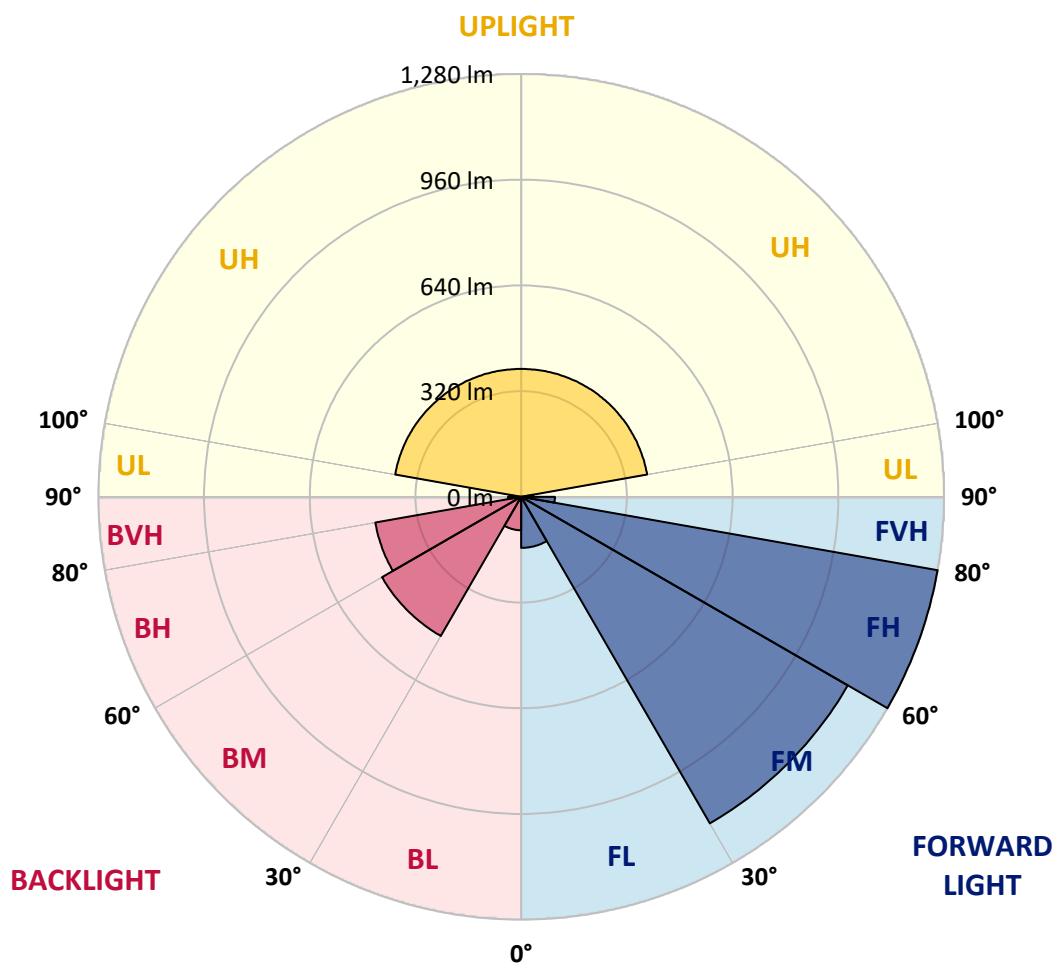
CATALOG NUMBER: TT-C3-LED-E1-DL-CG-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	154.7	3.4			
FM	(30°-60°)	1141.9	25.1			
FH	(60°-80°)	1280.4	28.1			G1/1800
FVH	(80°-90°)	102.1	2.2			G2/225
BL	(0°-30°)	101.2	2.2	B0/110		
BM	(30°-60°)	486.7	10.7	B1/1000		
BH	(60°-80°)	448.5	9.8	B1/500		G1/500
BVH	(80°-90°)	39.7	0.9			G1/100
UL	(90°-100°)	36.3	0.8		U2/50	
UH	(100°-180°)	387.3	8.5		U3/500	

BUG Rating: B1-U4-G2

Type IV Short



REPORT NUMBER: P198371

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8
2.5°	246.6	246.6	245.9	245.1	244.4	243.6	243.6	242.1	240.6	239.1	237.6
5°	259.4	258.7	258.7	257.9	256.4	253.4	252.6	251.1	248.1	244.4	241.3
7.5°	273.0	273.0	273.0	270.7	267.7	265.5	264.0	260.9	256.4	251.1	245.9
10°	288.9	289.6	288.1	286.6	283.6	279.0	279.0	273.0	266.2	259.4	252.6
12.5°	307.7	308.5	308.5	305.4	299.4	295.6	294.1	287.3	279.0	270.0	260.2
15°	327.3	330.3	328.8	327.3	320.5	315.2	313.7	303.2	294.1	282.1	270.0
17.5°	358.2	356.7	353.7	349.9	346.2	338.6	337.1	325.8	312.2	297.1	281.3
20°	386.9	386.9	383.9	380.9	376.3	365.8	367.3	352.2	334.1	316.0	294.9
22.5°	418.6	419.3	417.1	414.0	410.3	402.0	399.7	383.9	360.5	336.4	311.5
25°	450.2	451.8	453.3	453.3	448.0	438.2	436.7	416.3	392.2	360.5	330.3
27.5°	488.0	491.7	490.2	491.7	489.5	478.1	478.1	457.0	429.9	390.7	351.4
30°	523.4	527.9	530.2	536.2	536.2	529.4	524.2	504.5	472.1	426.1	378.6
32.5°	570.2	570.2	574.7	587.5	594.3	584.5	587.5	565.6	522.6	468.3	409.5
35°	617.7	617.7	626.0	643.3	650.1	652.4	652.4	625.2	582.2	517.4	447.2
37.5°	667.4	669.0	684.8	708.2	727.8	725.5	728.5	706.7	656.1	575.4	491.0
40°	717.2	721.7	746.6	773.8	807.0	817.5	813.0	799.4	736.1	644.1	540.0
42.5°	771.5	779.8	807.7	850.0	885.4	914.1	914.8	892.9	830.3	724.0	598.8
45°	828.1	840.9	870.3	925.4	982.7	1016.6	1015.9	1018.1	955.5	823.6	674.2
47.5°	892.9	901.2	942.7	1009.8	1086.8	1154.6	1153.9	1151.6	1070.9	915.6	733.8
50°	957.8	962.3	1018.9	1116.2	1219.5	1285.9	1294.2	1302.5	1193.1	1031.0	807.0
52.5°	1024.9	1027.9	1098.1	1215.0	1362.8	1460.8	1450.3	1454.1	1371.1	1181.0	923.1
55°	1089.8	1090.5	1178.8	1343.2	1521.9	1623.0	1638.8	1656.2	1516.7	1262.5	957.8
57.5°	1145.6	1151.6	1269.3	1471.4	1684.8	1822.8	1815.3	1793.4	1597.3	1294.9	963.1
60°	1193.9	1208.2	1359.0	1590.6	1809.3	1893.7	1902.0	1828.1	1623.0	1308.5	957.1
62.5°	1229.3	1252.7	1437.5	1681.1	1881.7	1933.7	1928.4	1843.2	1666.0	1362.0	994.0
65°	1251.9	1282.9	1469.1	1720.3	1883.9	1937.5	1939.0	1877.1	1685.6	1353.0	967.6
67.5°	1254.2	1297.9	1459.3	1693.1	1848.5	1862.8	1854.5	1763.3	1595.1	1270.0	892.2
70°	1236.9	1269.3	1411.1	1590.6	1699.9	1691.6	1686.3	1591.3	1432.2	1147.9	794.9
72.5°	1169.0	1192.4	1289.6	1415.6	1464.6	1460.1	1438.2	1365.8	1237.6	982.7	672.7
75°	1034.0	1049.8	1092.8	1161.4	1206.7	1190.8	1177.3	1107.1	1000.8	802.4	534.0
77.5°	850.7	833.4	855.2	882.4	905.0	910.3	907.3	835.6	758.7	604.1	406.5
80°	595.8	590.5	588.3	600.3	620.7	613.1	601.1	573.2	512.8	411.8	285.1
82.5°	353.7	347.7	345.4	351.4	340.9	342.4	343.2	314.5	298.7	251.1	163.7
85°	156.1	156.1	152.3	152.3	151.6	152.3	156.1	146.3	136.5	113.9	78.4
87.5°	23.4	21.1	29.4	27.2	31.7	36.2	33.2	31.7	26.4	20.4	15.8
90°	36.0	36.0	36.0	34.0	29.0	26.2	26.0	28.0	32.0	34.0	34.0
92.5°	40.0	39.0	38.0	34.0	29.0	27.0	27.0	28.0	32.0	35.0	36.0
95°	44.0	43.0	41.0	36.0	32.0	30.2	30.0	30.0	34.0	37.0	39.0
97.5°	42.0	42.0	40.0	37.0	35.0	33.2	33.0	33.0	34.0	36.0	36.0
100°	45.0	45.0	44.0	40.0	38.0	36.0	36.0	36.0	38.0	38.0	37.0
102.5°	51.0	51.0	49.0	46.0	44.0	42.0	42.0	43.0	44.0	42.0	41.0
105°	60.0	60.0	57.0	54.0	53.0	51.8	52.0	54.0	53.0	49.0	48.0
107.5°	72.0	72.0	70.0	67.0	66.0	67.6	68.0	68.0	66.0	60.0	59.0
110°	86.0	86.0	89.0	85.0	86.0	86.8	87.0	84.0	84.0	78.0	74.0

REPORT NUMBER: P198371

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	101.0	102.0	108.0	107.0	110.0	107.2	107.0	102.0	105.0	100.0	95.0
115°	121.0	122.0	128.0	128.0	129.0	124.4	124.0	121.0	125.0	123.0	116.0
117.5°	140.0	141.0	144.0	141.0	141.0	136.4	136.0	138.0	141.0	139.0	133.0
120°	152.0	153.0	155.0	149.0	149.0	147.0	147.0	150.0	153.0	148.0	145.0
122.5°	161.0	162.0	164.0	154.0	155.0	157.6	158.0	159.0	162.0	155.0	153.0
125°	169.0	169.0	172.0	163.0	165.0	167.6	168.0	167.0	168.0	163.0	160.0
127.5°	177.0	177.0	181.0	171.0	176.0	177.8	178.0	176.0	175.0	173.0	166.0
130°	187.0	188.0	191.0	179.0	186.0	186.2	186.0	183.0	183.0	184.0	171.0
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	195.0	190.0	192.0	192.0	179.0
135°	210.0	210.0	209.0	192.0	199.0	201.2	201.0	196.0	201.0	199.0	185.0
137.5°	221.0	219.0	213.0	197.0	205.0	207.8	208.0	203.0	210.0	204.0	191.0
140°	229.0	226.0	216.0	200.0	207.0	212.4	213.0	212.0	217.0	209.0	195.0
142.5°	235.0	231.0	218.0	201.0	208.0	216.8	218.0	220.0	223.0	211.0	198.0
145°	235.0	230.0	218.0	202.0	211.0	221.4	223.0	230.0	227.0	211.0	201.0
147.5°	230.0	227.0	219.0	207.0	216.0	227.2	229.0	239.0	229.0	212.0	204.0
150°	224.0	221.0	220.0	214.0	222.0	233.4	235.0	242.0	232.0	214.0	210.0
152.5°	216.0	214.0	221.0	220.0	230.0	239.6	241.0	242.0	235.0	219.0	215.0
155°	208.0	207.0	219.0	224.0	237.0	242.2	243.0	238.0	234.0	224.0	220.0
157.5°	203.0	203.0	216.0	224.0	234.0	234.4	235.0	228.0	229.0	226.0	222.0
160°	199.0	198.0	210.0	213.0	219.0	218.4	219.0	215.0	219.0	221.0	218.0
162.5°	185.0	184.0	193.0	193.0	198.0	197.4	198.0	196.0	200.0	204.0	207.0
165°	169.0	167.0	173.0	173.0	176.0	176.4	177.0	176.0	181.0	185.0	190.0
167.5°	154.0	152.0	156.0	155.0	159.0	158.6	159.0	160.0	165.0	168.0	172.0
170°	142.0	141.0	145.0	144.0	147.0	146.8	147.0	148.0	152.0	155.0	159.0
172.5°	137.0	135.0	139.0	138.0	141.0	140.8	141.0	141.0	145.0	146.0	149.0
175°	136.0	134.0	137.0	137.0	139.0	138.8	139.0	138.0	141.0	141.0	143.0
177.5°	137.0	136.0	139.0	138.0	140.0	139.0	139.0	138.0	140.0	140.0	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: P198371

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8
2.5°	236.8	236.1	233.8	232.3	230.0	228.5	227.0	226.3	226.3	225.5	226.3
5°	239.8	238.3	234.5	231.5	228.5	226.3	224.0	221.7	220.2	219.5	219.5
7.5°	242.8	240.6	235.3	230.8	226.3	222.5	219.5	218.0	215.7	214.9	214.2
10°	248.1	245.1	237.6	230.8	225.5	220.2	216.4	214.2	212.7	211.9	211.9
12.5°	255.7	250.4	241.3	233.0	225.5	219.5	214.9	211.9	210.4	208.9	209.7
15°	263.2	257.2	245.9	234.5	226.3	220.2	214.9	211.9	209.7	208.9	208.2
17.5°	273.0	266.2	252.6	239.8	229.3	221.7	216.4	213.4	211.2	210.4	210.4
20°	285.8	276.8	259.4	245.1	233.8	225.5	219.5	216.4	214.2	214.2	214.2
22.5°	298.7	287.3	267.0	251.1	239.1	230.0	224.7	221.7	219.5	218.7	219.5
25°	313.7	300.9	277.5	258.7	245.9	237.6	232.3	228.5	226.3	226.3	226.3
27.5°	334.1	319.0	288.9	270.0	254.9	245.9	239.8	237.6	236.1	235.3	234.5
30°	356.7	337.1	305.4	281.3	266.2	256.4	251.1	248.9	246.6	245.1	244.4
32.5°	383.9	361.3	321.3	296.4	279.0	269.2	264.0	260.9	258.7	257.9	257.9
35°	417.8	389.9	343.9	314.5	294.9	284.3	279.0	276.0	273.8	273.0	273.8
37.5°	451.8	419.3	368.0	334.1	313.7	300.9	295.6	291.9	290.4	288.9	289.6
40°	493.2	453.3	395.9	358.2	334.1	323.5	315.2	310.7	308.5	306.2	304.7
42.5°	543.8	498.5	430.6	383.9	358.2	343.9	335.6	330.3	325.8	324.3	322.0
45°	607.9	552.8	475.9	416.3	385.4	367.3	357.5	350.7	343.9	342.4	340.1
47.5°	660.7	601.1	513.6	454.0	418.6	394.4	380.9	371.1	362.8	361.3	359.0
50°	719.5	652.4	549.0	485.7	445.7	425.4	408.0	394.4	385.4	380.9	382.4
52.5°	819.8	735.3	612.4	529.4	478.9	452.5	438.9	420.8	406.5	399.7	401.2
55°	841.7	761.7	646.3	571.7	521.9	491.0	466.8	448.7	430.6	418.6	417.8
57.5°	840.9	758.7	644.1	577.7	543.0	522.6	501.5	472.1	450.2	434.4	433.7
60°	831.1	747.4	632.8	567.1	542.3	536.2	524.9	503.0	467.6	450.2	446.5
62.5°	855.2	767.8	641.8	565.6	534.7	531.7	528.7	515.1	483.4	459.3	455.5
65°	829.6	740.6	628.2	563.4	534.0	527.9	528.7	510.6	492.5	461.6	457.8
67.5°	754.9	678.8	574.7	518.9	504.5	506.1	511.3	503.0	482.7	457.0	454.0
70°	672.0	601.8	509.8	460.0	449.5	457.8	472.1	472.9	459.3	438.9	439.7
72.5°	565.6	506.1	432.1	392.2	388.4	395.2	406.5	420.1	416.3	410.3	411.0
75°	458.5	410.3	343.2	316.8	316.0	321.3	336.4	346.9	354.5	356.7	362.0
77.5°	340.1	312.2	260.9	239.1	236.8	243.6	260.2	269.2	279.8	288.1	295.6
80°	238.3	212.7	179.5	162.9	165.9	170.4	181.0	192.3	199.9	206.6	206.6
82.5°	139.5	125.9	107.1	99.6	101.1	107.8	110.1	119.9	120.7	125.2	128.2
85°	65.6	56.6	51.3	50.5	50.5	51.3	55.8	56.6	57.3	58.8	64.9
87.5°	13.6	13.6	13.6	13.6	13.6	15.8	16.6	18.1	17.3	18.1	17.3
90°	34.0	34.0	34.0	32.0	27.0	21.0	25.0	30.0	33.0	34.0	34.0
92.5°	36.0	35.0	33.0	31.0	27.0	23.0	25.0	29.0	34.0	36.0	36.0
95°	38.0	38.0	35.0	33.0	29.0	26.0	27.0	31.0	34.0	35.0	36.0
97.5°	36.0	35.0	35.0	34.0	30.0	25.0	26.0	30.0	33.0	35.0	35.0
100°	37.0	37.0	38.0	38.0	33.0	27.0	28.0	32.0	35.0	36.0	36.0
102.5°	41.0	42.0	43.0	45.0	39.0	32.0	33.0	35.0	38.0	40.0	41.0
105°	49.0	49.0	52.0	54.0	48.0	39.0	38.0	41.0	44.0	48.0	49.0
107.5°	60.0	61.0	65.0	65.0	58.0	50.0	47.0	50.0	54.0	60.0	61.0
110°	75.0	77.0	78.0	75.0	71.0	65.0	60.0	62.0	67.0	73.0	74.0

REPORT NUMBER: P198371

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	94.0	94.0	91.0	86.0	84.0	82.0	77.0	80.0	85.0	87.0	87.0
115°	113.0	111.0	104.0	100.0	99.0	102.0	99.0	103.0	106.0	102.0	102.0
117.5°	129.0	128.0	121.0	117.0	116.0	120.0	121.0	125.0	125.0	120.0	120.0
120°	142.0	142.0	137.0	134.0	134.0	137.0	137.0	139.0	139.0	134.0	136.0
122.5°	150.0	153.0	151.0	148.0	149.0	149.0	145.0	148.0	149.0	145.0	146.0
125°	158.0	162.0	162.0	159.0	160.0	159.0	149.0	154.0	156.0	154.0	154.0
127.5°	163.0	169.0	170.0	168.0	168.0	169.0	154.0	158.0	163.0	160.0	161.0
130°	169.0	176.0	178.0	174.0	175.0	175.0	159.0	164.0	169.0	164.0	167.0
132.5°	176.0	182.0	186.0	181.0	183.0	181.0	165.0	171.0	176.0	171.0	174.0
135°	184.0	190.0	195.0	190.0	191.0	187.0	170.0	177.0	184.0	179.0	179.0
137.5°	190.0	196.0	204.0	200.0	199.0	191.0	175.0	182.0	192.0	187.0	187.0
140°	195.0	201.0	213.0	212.0	206.0	195.0	180.0	186.0	200.0	195.0	196.0
142.5°	198.0	204.0	220.0	222.0	212.0	197.0	184.0	190.0	205.0	204.0	205.0
145°	202.0	208.0	225.0	230.0	216.0	199.0	187.0	193.0	208.0	211.0	214.0
147.5°	206.0	212.0	230.0	236.0	219.0	202.0	191.0	195.0	212.0	220.0	225.0
150°	211.0	216.0	231.0	235.0	219.0	205.0	194.0	199.0	215.0	227.0	233.0
152.5°	216.0	220.0	229.0	230.0	220.0	208.0	201.0	205.0	219.0	232.0	239.0
155°	219.0	221.0	224.0	222.0	220.0	213.0	208.0	212.0	224.0	234.0	240.0
157.5°	219.0	219.0	216.0	213.0	216.0	219.0	215.0	220.0	229.0	232.0	235.0
160°	215.0	214.0	210.0	208.0	213.0	223.0	224.0	228.0	233.0	229.0	232.0
162.5°	207.0	207.0	204.0	204.0	209.0	221.0	227.0	231.0	230.0	224.0	226.0
165°	192.0	194.0	196.0	198.0	203.0	212.0	216.0	219.0	220.0	215.0	217.0
167.5°	174.0	177.0	181.0	184.0	189.0	195.0	196.0	199.0	200.0	197.0	200.0
170°	160.0	163.0	166.0	168.0	172.0	177.0	178.0	180.0	181.0	178.0	181.0
172.5°	151.0	153.0	155.0	156.0	159.0	162.0	162.0	164.0	165.0	163.0	166.0
175°	144.0	146.0	147.0	148.0	149.0	151.0	151.0	152.0	153.0	151.0	153.0
177.5°	141.0	142.0	142.0	142.0	143.0	144.0	143.0	144.0	145.0	143.0	145.0
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)