

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P1219639

Luminaire Tested: **LDSQA6A55950D010TE LARH30NF 6LSQA1H 30°**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1219639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26687)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A55950D010TE LARH30NF 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 30° NARROW FLOOD, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

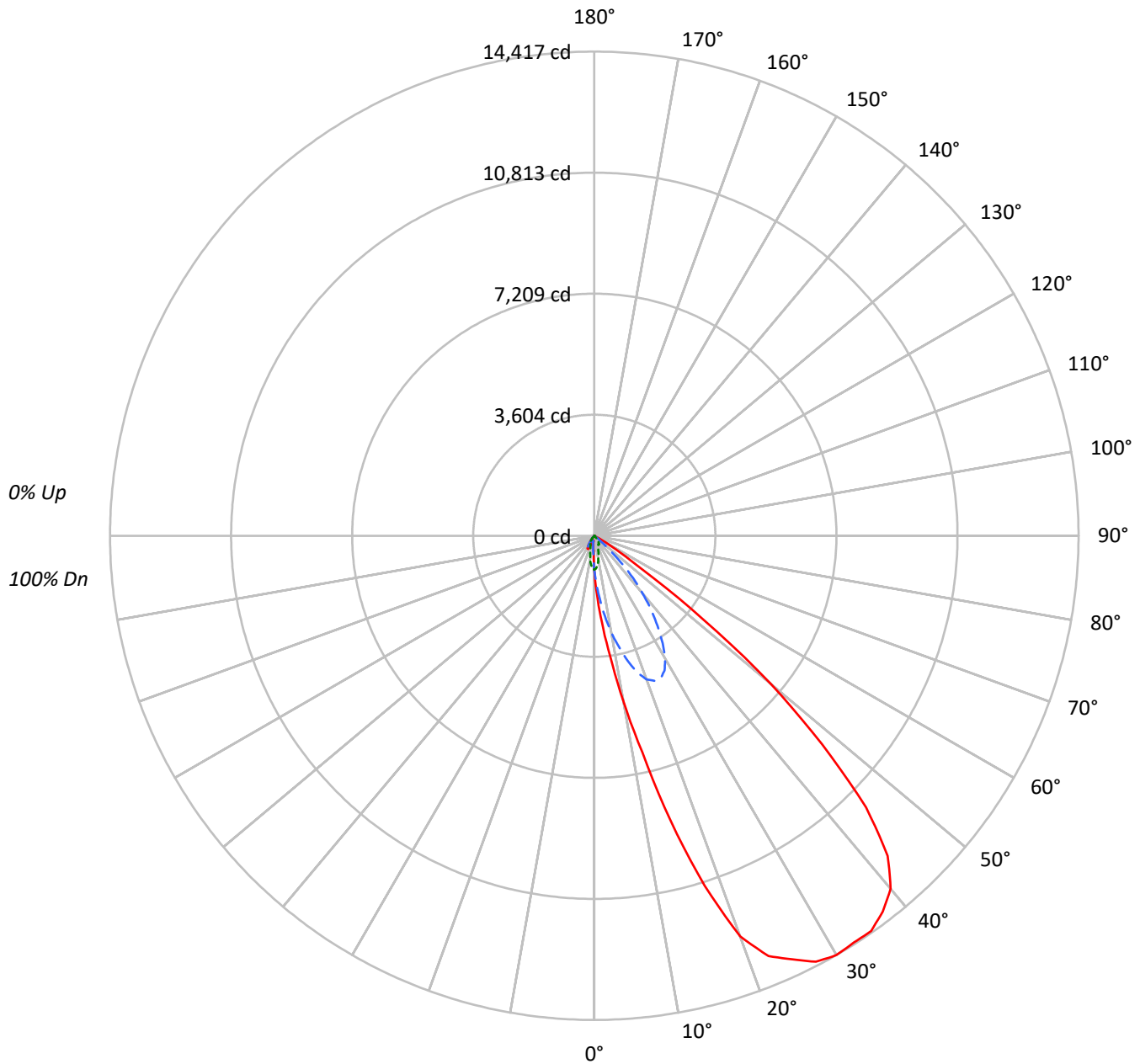
Lumens per Lamp: N/A
Luminaire Lumens: 5620.4 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 2.58 / 0.46 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.7
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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	77	74
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67
5	85	74	67	62	83	73	67	61	71	65	61	70	64	60	68	63	60
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54
7	74	62	55	49	72	61	54	49	60	53	49	59	53	49	57	52	48
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43650	43650	43650
5°	111966	39706	12370
10°	218263	30516	5942
15°	391814	20727	7970
20°	581716	15734	13155
25°	661212	12960	20637
30°	716761	14179	19404
35°	754985	9188	12031
40°	771309	4080	5857
45°	696641	1559	2180
50°	458577	616	616
55°	125577	540	0
60°	25084	620	0
65°	1773	835	0
70°	252	1032	0
75°	0	1530	0
80°	0	2281	248
85°	0	4545	494

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	2.2
10°-20°	659.8	11.7
20°-30°	1495.3	26.6
30°-40°	1794.9	31.9
40°-50°	1265.0	22.5
50°-60°	261.0	4.6
60°-70°	9.2	0.2
70°-80°	5.5	0.1
80°-90°	5.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2279.3	40.6
0°-40°	4074.2	72.5
0°-60°	5600.3	99.6
0°-90°	5620.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5620.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1014	1014	1014	1014	1014	
5°	2591	1888	919	382	286	319
15°	8790	3867	465	166	179	2609
25°	13918	4678	273	382	434	6423
35°	14364	3275	175	229	229	8929
45°	11441	1123	26	35	36	8415
55°	1673	23	7	5	0	2205
65°	17	5	8	5	0	52
75°	0	5	9	6	0	0
85°	0	6	9	6	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
2.5°	1728.2	1676.1	1696.4	1636.1	1622.8	1611.6	1622.8	1557.5	1520.7	1473.7	1435.8
5°	2590.6	2528.3	2542.7	2437.3	2389.3	2356.7	2350.6	2215.6	2114.5	2003.1	1887.6
7.5°	3606.6	3547.3	3539.1	3375.5	3276.5	3220.3	3196.8	3003.5	2828.9	2630.6	2413.8
10°	4992.3	4857.4	4815.5	4578.4	4389.4	4269.7	4122.7	3814.0	3507.4	3207.9	2932.1
12.5°	6604.9	6531.5	6427.2	6009.2	5678.0	5508.4	5288.7	4806.4	4342.3	3847.7	3385.8
15°	8790.1	8528.4	8350.5	7746.5	7213.1	6951.4	6630.5	5892.7	5191.7	4565.1	3867.2
17.5°	10924.9	10788.0	10510.0	9726.2	8904.5	8491.6	8013.2	7010.8	6020.5	5129.3	4276.9
20°	12696.0	12567.3	12250.4	11511.4	10599.9	9990.9	9388.9	8013.2	6719.4	5579.0	4550.8
22.5°	13544.1	13462.5	13203.8	12571.3	11794.6	11215.2	10568.2	8866.7	7236.5	5873.3	4675.6
25°	13918.3	13880.4	13714.0	13215.1	12483.4	11991.8	11380.7	9470.6	7558.4	6010.3	4677.6
27.5°	14297.4	14304.6	13936.6	13542.2	12848.3	12376.1	11787.5	9738.4	7616.8	5933.6	4524.3
30°	14417.0	14341.4	14178.9	13612.8	12953.5	12451.7	11820.1	9614.7	7377.7	5618.7	4218.7
32.5°	14367.9	14338.4	14159.4	13560.6	12774.6	12221.9	11504.3	9124.1	6905.5	5169.1	3785.4
35°	14363.9	14308.6	13898.8	13384.8	12417.0	11734.3	10789.1	8331.1	6237.1	4576.4	3275.4
37.5°	14104.3	13967.4	13659.7	12966.8	11691.4	10825.8	9765.9	7362.3	5419.5	3911.1	2769.5
40°	13723.1	13539.1	13134.5	12085.8	10434.4	9436.9	8402.7	6261.6	4553.8	3255.0	2232.0
42.5°	12926.9	12648.9	12076.6	10634.6	8759.3	7860.0	6999.5	5146.6	3713.8	2652.1	1703.6
45°	11441.0	11060.8	10287.2	8704.1	7076.2	6342.3	5650.4	4141.0	2972.9	1967.3	1123.1
47.5°	9195.8	8843.1	8138.9	6929.0	5549.3	4929.0	4377.0	3080.2	2015.3	1139.5	536.5
50°	6846.2	6543.7	5993.9	4815.5	3725.1	3237.6	2765.5	1749.7	944.3	541.6	222.8
52.5°	4084.8	3934.6	3447.2	2670.4	1839.6	1585.1	1272.3	740.9	476.2	196.1	60.3
55°	1672.9	1544.2	1361.3	1092.5	800.2	678.5	580.5	365.8	148.2	40.9	22.6
57.5°	756.3	727.6	644.8	506.9	368.0	308.7	208.5	69.5	32.8	20.4	13.3
60°	291.3	262.6	224.8	121.6	52.1	43.9	35.8	23.5	16.3	11.2	8.2
62.5°	41.9	39.9	35.8	28.6	22.6	20.4	17.4	12.2	9.2	7.2	6.1
65°	17.4	17.4	15.4	12.2	10.2	9.2	8.2	6.1	5.2	5.2	5.2
67.5°	7.2	7.2	6.1	5.2	4.1	4.1	4.1	3.0	4.1	4.1	5.2
70°	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	4.1	4.1	5.2
72.5°	0.0	0.0	1.0	1.0	2.0	2.0	2.0	3.0	4.1	5.2	5.2
75°	0.0	0.0	1.0	1.0	2.0	2.0	2.0	3.0	4.1	5.2	5.2
77.5°	0.0	0.0	1.0	1.0	2.0	2.0	3.0	3.0	4.1	5.2	5.2
80°	0.0	0.0	1.0	1.0	2.0	2.0	3.0	3.0	4.1	5.2	6.1
82.5°	0.0	0.0	1.0	1.0	2.0	2.0	3.0	3.0	4.1	5.2	6.1
85°	0.0	0.0	1.0	1.0	2.0	2.0	3.0	3.0	4.1	5.2	6.1
87.5°	0.0	0.0	1.0	1.0	2.0	2.0	3.0	3.0	4.1	5.2	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
2.5°	1403.1	1337.9	1319.3	1262.1	1214.1	1190.6	1161.0	1094.6	1044.5	978.0	938.2
5°	1806.8	1683.2	1585.1	1465.6	1386.7	1335.7	1256.0	1134.4	1036.3	918.7	834.9
7.5°	2243.2	2017.4	1840.5	1643.3	1529.8	1441.0	1305.1	1130.3	986.2	829.8	700.0
10°	2664.3	2327.0	2049.0	1765.9	1616.8	1493.1	1306.1	1086.4	895.2	698.0	561.1
12.5°	3035.2	2599.9	2208.4	1844.6	1659.7	1505.4	1271.4	1007.8	776.7	574.3	453.8
15°	3345.0	2811.4	2320.9	1874.3	1662.8	1478.8	1198.7	895.2	644.8	465.0	380.1
17.5°	3580.0	2922.9	2355.6	1838.5	1603.5	1403.1	1087.4	753.2	523.2	394.5	319.9
20°	3701.6	2944.2	2305.5	1741.5	1494.1	1288.8	941.3	611.1	443.6	343.4	267.8
22.5°	3717.0	2884.0	2186.0	1602.4	1356.2	1149.7	779.7	509.9	395.5	303.6	236.1
25°	3626.0	2753.3	2015.3	1445.0	1204.9	990.2	634.6	456.8	359.7	272.8	271.9
27.5°	3431.8	2528.3	1811.0	1262.1	1021.9	805.4	538.6	412.9	320.9	289.2	307.5
30°	3158.0	2240.2	1559.6	1031.2	798.2	619.2	453.8	340.3	282.0	285.2	300.5
32.5°	2787.0	1882.4	1264.2	755.2	571.3	466.0	340.3	232.0	234.1	235.0	248.2
35°	2320.9	1509.5	944.3	507.9	401.6	328.0	192.2	170.7	173.8	174.8	184.0
37.5°	1860.0	1160.0	627.4	338.2	252.4	172.6	119.6	114.5	116.5	115.5	125.7
40°	1424.6	808.4	376.2	167.6	97.1	80.8	73.6	70.5	71.4	72.6	78.6
42.5°	1008.7	438.5	186.0	63.4	51.1	47.1	43.9	41.9	43.0	43.0	47.1
45°	512.0	207.5	63.4	34.7	31.7	28.6	26.5	25.6	25.6	25.6	27.6
47.5°	221.7	68.4	29.7	21.5	19.3	18.4	16.3	15.4	15.4	15.4	16.3
50°	69.5	27.6	18.4	14.4	12.2	11.2	10.2	10.2	10.2	9.2	10.2
52.5°	25.6	17.4	12.2	9.2	8.2	8.2	8.2	7.2	8.2	7.2	8.2
55°	15.4	11.2	8.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
57.5°	10.2	8.2	7.2	7.2	6.1	6.1	7.2	7.2	7.2	7.2	7.2
60°	7.2	7.2	6.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	8.2
65°	5.2	6.1	6.1	6.1	6.1	6.1	7.2	7.2	8.2	8.2	8.2
67.5°	5.2	6.1	6.1	7.2	7.2	7.2	7.2	8.2	8.2	8.2	8.2
70°	6.1	6.1	7.2	7.2	7.2	7.2	8.2	8.2	8.2	8.2	9.2
72.5°	6.1	6.1	7.2	7.2	7.2	7.2	8.2	8.2	9.2	9.2	9.2
75°	6.1	7.2	7.2	7.2	7.2	8.2	8.2	8.2	9.2	9.2	9.2
77.5°	6.1	7.2	7.2	8.2	8.2	8.2	8.2	9.2	9.2	9.2	9.2
80°	6.1	7.2	7.2	8.2	8.2	8.2	9.2	9.2	9.2	9.2	10.2
82.5°	6.1	7.2	7.2	8.2	8.2	8.2	9.2	9.2	9.2	9.2	10.2
85°	7.2	7.2	8.2	8.2	8.2	8.2	9.2	9.2	9.2	9.2	10.2
87.5°	7.2	7.2	8.2	8.2	8.2	8.2	9.2	9.2	10.2	9.2	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
2.5°	885.0	825.8	784.9	769.5	740.0	692.8	665.3	639.8	591.7	581.5	554.9
5°	738.9	643.8	576.4	550.8	517.1	477.4	438.5	412.9	382.2	369.9	351.6
7.5°	582.5	487.6	429.2	408.7	385.3	352.6	317.8	292.3	260.6	244.3	228.9
10°	457.8	387.3	338.2	317.8	293.4	258.6	222.8	189.0	161.4	144.0	141.0
12.5°	372.0	313.8	261.7	240.1	211.5	176.8	151.2	150.3	148.2	147.1	149.2
15°	304.5	248.2	193.1	169.6	161.4	160.5	163.5	166.6	165.6	168.6	170.7
17.5°	250.4	190.1	177.8	178.8	179.8	182.9	188.0	196.1	197.2	202.4	206.3
20°	204.4	201.3	206.3	210.5	213.5	219.8	230.9	241.3	244.3	251.5	259.6
22.5°	232.0	241.3	252.4	257.6	261.7	272.8	285.2	301.5	307.5	316.9	328.0
25°	280.0	295.4	312.7	318.9	325.0	343.4	357.7	377.1	382.2	393.5	404.7
27.5°	319.9	336.2	354.6	362.8	368.0	386.4	398.5	410.9	410.9	416.9	425.0
30°	313.8	327.1	342.4	348.4	350.6	363.8	376.2	380.1	378.1	381.2	387.3
32.5°	260.6	270.8	283.1	288.2	290.2	299.5	309.7	309.7	308.7	308.7	312.7
35°	193.1	200.3	206.3	211.5	214.6	220.7	229.9	228.9	228.9	226.9	229.9
37.5°	129.8	133.8	141.0	143.1	144.0	148.2	155.3	155.3	153.3	154.2	156.4
40°	78.6	83.8	87.9	88.9	91.0	94.0	99.1	99.1	99.1	99.1	100.2
42.5°	47.1	50.1	53.1	53.1	54.1	58.2	60.3	60.3	60.3	60.3	61.3
45°	27.6	28.6	30.7	31.7	31.7	33.7	34.7	34.7	34.7	34.7	35.8
47.5°	16.3	17.4	17.4	18.4	18.4	19.3	20.4	20.4	19.3	19.3	19.3
50°	10.2	10.2	10.2	10.2	11.2	11.2	11.2	11.2	11.2	11.2	10.2
52.5°	8.2	8.2	8.2	8.2	7.2	7.2	7.2	7.2	6.1	6.1	5.2
55°	7.2	7.2	7.2	7.2	7.2	6.1	6.1	6.1	5.2	4.1	3.0
57.5°	7.2	7.2	7.2	7.2	7.2	6.1	6.1	5.2	4.1	4.1	3.0
60°	7.2	7.2	7.2	7.2	7.2	6.1	6.1	5.2	4.1	4.1	3.0
62.5°	8.2	8.2	7.2	7.2	7.2	6.1	6.1	5.2	5.2	4.1	3.0
65°	8.2	8.2	7.2	7.2	7.2	7.2	6.1	6.1	5.2	4.1	3.0
67.5°	8.2	8.2	8.2	8.2	7.2	7.2	7.2	6.1	5.2	4.1	3.0
70°	9.2	9.2	8.2	8.2	8.2	7.2	7.2	6.1	5.2	5.2	4.1
72.5°	9.2	9.2	8.2	8.2	8.2	8.2	7.2	6.1	6.1	5.2	4.1
75°	9.2	9.2	9.2	9.2	8.2	8.2	7.2	7.2	6.1	5.2	4.1
77.5°	9.2	9.2	9.2	9.2	8.2	8.2	8.2	7.2	6.1	5.2	4.1
80°	9.2	9.2	9.2	9.2	9.2	8.2	8.2	7.2	6.1	5.2	4.1
82.5°	10.2	10.2	9.2	9.2	9.2	8.2	8.2	7.2	6.1	5.2	5.2
85°	10.2	10.2	9.2	9.2	9.2	8.2	8.2	7.2	6.1	6.1	5.2
87.5°	10.2	10.2	9.2	9.2	9.2	8.2	8.2	7.2	6.1	6.1	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219639

CATALOG NUMBER: LDSQA6A55950D010TE LARH30NF 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
2.5°	538.6	507.9	497.7	504.9	496.7	490.6	482.4	478.3
5°	337.3	314.7	307.5	309.7	302.5	296.4	288.2	286.2
7.5°	207.5	186.0	177.8	177.8	169.6	162.4	157.5	154.2
10°	138.9	134.9	135.9	136.9	135.9	136.9	133.8	135.9
12.5°	149.2	147.1	149.2	150.3	150.3	152.3	148.2	151.2
15°	173.8	171.6	174.8	176.8	176.8	179.8	175.8	178.8
17.5°	212.6	211.5	216.7	218.7	219.8	224.8	219.8	223.9
20°	268.8	267.8	275.0	278.0	277.0	287.1	280.0	287.1
22.5°	341.3	339.2	349.4	352.6	353.6	366.9	360.8	365.8
25°	413.9	415.9	421.1	426.2	427.2	438.5	429.2	434.4
27.5°	429.2	426.2	429.2	435.4	436.4	441.5	433.3	437.4
30°	388.3	383.1	384.3	391.4	393.5	395.5	388.3	390.3
32.5°	315.7	307.5	307.5	314.7	316.9	319.9	307.5	312.7
35°	233.1	225.9	225.9	230.9	232.0	234.1	224.8	228.9
37.5°	159.4	153.3	155.3	157.5	158.4	160.5	159.4	158.4
40°	102.2	98.2	101.2	101.2	102.2	103.2	103.2	104.2
42.5°	62.3	59.3	61.3	61.3	62.3	62.3	62.3	63.4
45°	35.8	34.7	34.7	35.8	35.8	35.8	34.7	35.8
47.5°	19.3	18.4	19.3	19.3	19.3	19.3	19.3	19.3
50°	10.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
52.5°	5.2	4.1	4.1	4.1	3.0	4.1	3.0	3.0
55°	3.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0
57.5°	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
60°	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
62.5°	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
65°	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
67.5°	3.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
70°	3.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0
72.5°	3.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0
75°	3.0	2.0	2.0	2.0	1.0	1.0	0.0	0.0
77.5°	3.0	3.0	2.0	2.0	1.0	1.0	1.0	0.0
80°	4.1	3.0	2.0	2.0	2.0	1.0	1.0	1.0
82.5°	4.1	3.0	2.0	2.0	2.0	1.0	1.0	1.0
85°	4.1	3.0	3.0	2.0	2.0	1.0	1.0	1.0
87.5°	4.1	3.0	3.0	2.0	2.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)