

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: P1219543

Luminaire Tested: **LDSQA4A25950D010TE LAR15SP 4LSQA1H 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: P1219543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26799)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25950D010TE LAR15SP 4LSQA1H 30°
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

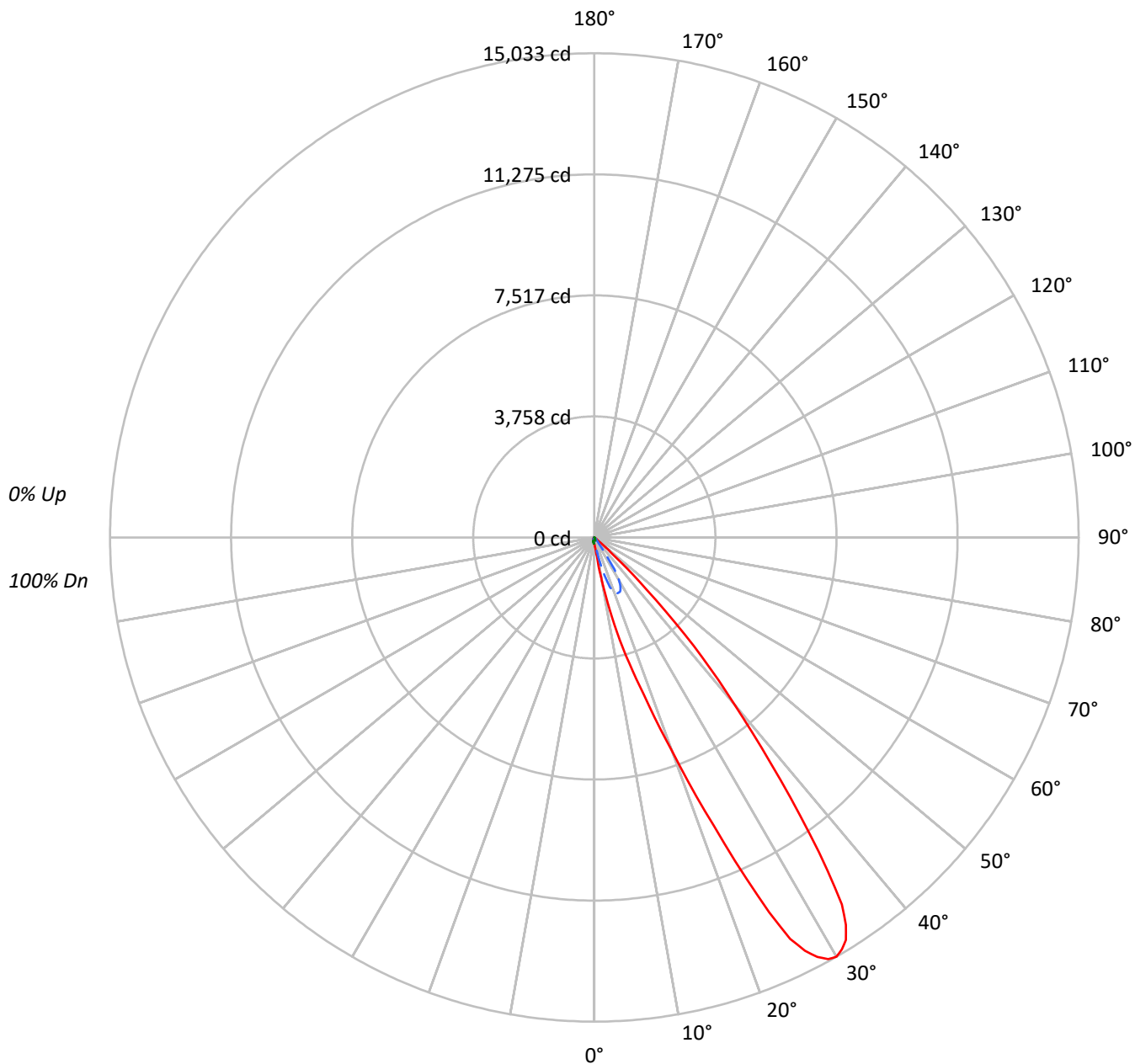
Lumens per Lamp: N/A
Luminaire Lumens: 2311.8 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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

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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19307	19307	19307
5°	32149	18214	15559
10°	137118	15965	13506
15°	379528	12687	11975
20°	727979	8990	10701
25°	1372566	5997	9438
30°	1681645	4005	8267
35°	1493485	2685	7048
40°	851190	1821	5893
45°	310489	1480	4905
50°	34181	1085	4160
55°	5033	811	3429
60°	1143	930	2790
65°	802	1100	1903
70°	680	1360	1671
75°	898	1797	1310
80°	0	2678	1339
85°	0	3890	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.1	1.1
10°-20°	250.5	10.8
20°-30°	822.8	35.6
30°-40°	902.3	39.0
40°-50°	281.9	12.2
50°-60°	15.4	0.7
60°-70°	6.2	0.3
70°-80°	4.7	0.2
80°-90°	2.9	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°	1098.4	47.5
0°-40°	2000.7	86.5
0°-60°	2298.0	99.4
0°-90°	2311.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2311.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	199	199	199	199	199	
5°	331	265	187	166	160	61
15°	3784	1216	126	113	119	1189
25°	12841	1868	56	69	88	5724
35°	12628	368	23	39	60	7383
45°	2266	38	11	23	36	2081
55°	30	7	5	13	20	47
65°	4	4	5	10	8	3
75°	2	4	5	7	4	2
85°	0	4	4	4	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°	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3
2.5°	245.9	248.2	249.4	243.5	244.6	242.2	244.6	239.8	231.6	233.9	226.8
5°	330.6	325.7	324.6	315.0	312.7	307.8	307.8	297.2	281.6	279.3	265.0
7.5°	584.8	559.6	538.2	506.0	475.0	451.0	441.6	403.4	361.5	346.1	312.7
10°	1393.9	1389.1	1335.5	1234.0	1117.1	1032.3	983.3	835.4	648.0	533.4	414.1
12.5°	2537.2	2513.3	2437.0	2250.8	2049.1	1922.5	1823.5	1525.2	1247.1	1023.9	733.9
15°	3784.2	3687.6	3575.4	3286.6	3003.7	2839.1	2698.2	2340.2	1909.4	1588.4	1216.1
17.5°	5116.1	5159.0	4887.1	4389.3	3886.9	3629.1	3390.4	2840.2	2368.9	2034.8	1616.0
20°	7061.4	6970.6	6492.2	5667.4	4926.4	4495.5	4156.7	3362.9	2651.8	2235.2	1839.0
22.5°	9690.4	9401.6	8468.3	7073.2	5897.7	5299.8	4818.9	3749.7	2889.2	2337.9	1874.8
25°	12840.9	12573.6	10845.6	8425.4	6686.7	5912.1	5258.1	3995.5	2984.7	2354.6	1867.7
26°	13869.8	13472.4	11722.8	8906.4	6928.9	6067.3	5366.7	4043.2	2987.1	2341.5	1836.6
27°	14401.9	14090.4	12448.3	9296.6	7094.7	6165.0	5427.6	4055.2	2963.2	2311.5	1788.9
28°	14752.7	14461.6	12907.8	9551.9	7179.4	6203.3	5445.4	4029.0	2909.5	2259.1	1713.7
29°	14970.0	14663.2	13132.2	9667.7	7185.5	6186.6	5412.1	3959.7	2836.7	2195.9	1626.7
30°	15033.2	14701.5	13138.1	9620.0	7097.2	6097.1	5317.8	3847.6	2748.4	2115.9	1529.9
31°	14921.1	14578.6	12922.1	9402.8	6915.7	5922.8	5169.8	3699.5	2638.6	2031.2	1380.7
32°	14734.8	14280.1	12469.9	9042.4	6667.4	5712.8	4984.8	3538.4	2521.6	1923.8	1170.8
33°	14338.6	13789.7	11777.7	8590.1	6369.2	5471.8	4768.8	3359.4	2410.7	1738.8	870.1
34°	13743.2	13049.8	10929.2	8063.8	6031.4	5171.0	4520.6	3193.5	2295.0	1494.2	595.5
35°	12628.5	11982.9	9992.3	7502.9	5667.4	4879.8	4247.3	2976.4	2137.4	1198.2	367.6
36°	11381.4	10906.5	9084.1	6932.4	5295.2	4577.9	3965.6	2816.4	1904.7	881.9	249.4
37°	10106.8	9685.7	8227.2	6371.6	4921.6	4243.7	3679.2	2635.0	1627.7	588.3	200.5
38°	8893.1	8559.0	7413.3	5820.2	4533.8	3894.0	3378.4	2441.7	1329.4	378.2	164.6
39°	7778.6	7527.9	6616.3	5286.7	4144.7	3551.6	3089.7	2198.2	1014.4	269.7	137.3
40°	6730.8	6554.1	5847.7	4760.5	3758.0	3215.1	2828.3	1903.5	704.1	213.6	111.0
42.5°	4577.9	4533.8	4114.8	3426.3	2791.4	2474.0	2236.4	1070.5	270.9	128.9	62.0
45°	2266.3	2297.4	2130.2	1959.6	1827.1	1730.5	1409.4	446.3	150.4	70.4	38.2
47.5°	801.9	803.2	691.0	615.8	588.3	585.9	426.1	157.6	80.0	43.0	27.6
50°	226.8	244.6	230.4	235.0	183.8	156.4	127.7	76.3	40.6	27.6	17.9
51°	139.7	150.4	140.8	145.6	126.5	113.4	95.4	57.3	32.2	22.7	16.7
52°	89.5	95.4	90.7	91.9	84.8	73.9	64.5	41.7	26.2	19.1	14.4
53°	60.8	64.5	60.8	60.8	56.1	52.5	45.3	31.1	21.5	15.5	10.8
54°	41.7	43.0	43.0	43.0	39.3	36.9	32.2	23.9	17.9	14.4	9.6
55°	29.8	31.1	29.8	29.8	28.7	26.2	23.9	17.9	14.4	12.0	7.2
57.5°	13.2	13.2	13.2	14.4	13.2	13.2	12.0	10.8	9.6	7.2	4.8
60°	5.9	5.9	5.9	5.9	7.2	7.2	7.2	7.2	5.9	4.8	4.8
61°	4.8	4.8	4.8	4.8	4.8	5.9	5.9	5.9	4.8	4.8	3.5
62°	3.5	3.5	3.5	3.5	4.8	4.8	4.8	4.8	4.8	3.5	3.5
63°	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	3.5	3.5	3.5
64°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	3.5	2.4	2.4	2.4	2.4	3.5	3.5	3.5	3.5	3.5	3.5
66°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	3.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5
77.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	3.5
80°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	3.5
82.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	3.5
85°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	3.5
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	3.5
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°	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3
2.5°	221.9	220.8	214.9	208.8	210.1	207.7	205.2	201.7	199.3	193.3	193.3
5°	252.9	247.0	233.9	221.9	220.8	216.0	208.8	201.7	195.7	187.3	184.9
7.5°	288.8	272.1	250.6	231.6	228.0	220.8	207.7	198.1	187.3	176.6	173.2
10°	340.1	300.8	263.7	235.0	228.0	217.3	200.5	187.3	175.4	162.3	157.6
12.5°	522.7	371.2	280.5	235.0	221.9	208.8	188.6	173.2	158.8	144.5	139.7
15°	871.2	593.1	355.7	235.0	211.2	195.7	170.8	155.2	139.7	126.5	121.7
17.5°	1203.0	843.6	495.4	265.0	212.5	180.1	149.1	132.4	119.4	106.2	102.6
20°	1395.1	983.3	587.2	294.8	210.1	162.3	127.7	109.7	96.6	87.2	83.6
22.5°	1420.2	989.2	566.9	263.7	176.6	134.9	106.2	89.5	78.7	70.4	68.0
25°	1353.4	873.6	453.4	187.3	131.2	109.7	83.6	71.7	63.2	56.1	54.9
26°	1302.0	804.3	395.0	155.2	115.8	97.8	75.2	64.5	57.3	51.3	50.1
27°	1229.3	730.4	337.8	128.9	102.6	88.3	66.9	58.4	52.5	46.6	46.6
28°	1146.8	650.3	272.1	108.6	91.9	78.7	60.8	52.5	46.6	43.0	43.0
29°	1047.8	534.7	199.3	94.2	81.2	69.3	53.7	46.6	41.7	39.3	39.3
30°	901.0	387.8	137.3	82.4	70.4	60.8	47.7	41.7	38.2	35.8	35.8
31°	704.1	238.6	107.3	71.7	62.0	53.7	43.0	36.9	34.6	32.2	33.5
32°	479.8	149.1	91.9	62.0	54.9	46.6	38.2	33.5	31.1	29.8	29.8
33°	273.3	124.1	80.0	53.7	46.6	40.6	33.5	29.8	28.7	27.6	27.6
34°	181.4	106.2	69.3	45.3	38.2	34.6	28.7	26.2	25.0	25.0	25.0
35°	152.8	91.9	56.1	38.2	33.5	29.8	25.0	23.9	22.7	22.7	23.9
36°	128.9	76.3	45.3	32.2	28.7	26.2	22.7	21.5	20.3	20.3	21.5
37°	108.6	60.8	38.2	27.6	23.9	22.7	20.3	19.1	19.1	19.1	20.3
38°	88.3	48.9	32.2	23.9	21.5	19.1	17.9	16.7	16.7	17.9	19.1
39°	69.3	39.3	26.2	20.3	17.9	16.7	15.5	15.5	15.5	15.5	16.7
40°	54.9	33.5	22.7	17.9	15.5	15.5	14.4	13.2	14.4	14.4	16.7
42.5°	34.6	23.9	16.7	13.2	12.0	12.0	10.8	10.8	10.8	12.0	13.2
45°	25.0	19.1	13.2	10.8	9.6	8.3	8.3	8.3	9.6	10.8	12.0
47.5°	19.1	13.2	9.6	7.2	5.9	5.9	5.9	5.9	7.2	8.3	9.6
50°	13.2	8.3	5.9	4.8	4.8	4.8	4.8	4.8	5.9	7.2	8.3
51°	10.8	7.2	5.9	4.8	4.8	3.5	3.5	4.8	5.9	5.9	7.2
52°	8.3	5.9	4.8	3.5	3.5	3.5	3.5	4.8	4.8	5.9	7.2
53°	7.2	5.9	4.8	3.5	3.5	3.5	3.5	3.5	4.8	5.9	7.2
54°	5.9	4.8	3.5	3.5	3.5	3.5	3.5	3.5	4.8	5.9	7.2
55°	4.8	4.8	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	5.9
57.5°	4.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	5.9
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	5.9
61°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	5.9
62°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	5.9
63°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	5.9
64°	3.5	3.5	3.5	3.5	4.8	4.8	3.5	3.5	4.8	4.8	5.9
65°	3.5	3.5	4.8	4.8	4.8	4.8	3.5	3.5	4.8	4.8	5.9
66°	3.5	4.8	4.8	4.8	4.8	4.8	3.5	3.5	4.8	4.8	5.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	3.5	4.8	4.8	4.8	4.8	4.8	4.8	3.5	4.8	4.8	4.8
75°	3.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	3.5	4.8	4.8	4.8	4.8	4.8	4.8	3.5	3.5	4.8	4.8
80°	3.5	4.8	4.8	4.8	4.8	4.8	4.8	3.5	3.5	4.8	4.8
82.5°	3.5	4.8	4.8	4.8	4.8	4.8	4.8	3.5	3.5	3.5	4.8
85°	3.5	3.5	4.8	4.8	4.8	4.8	4.8	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	4.8	4.8	4.8	4.8	3.5	3.5	3.5	3.5	3.5
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°	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3
2.5°	190.9	187.3	184.9	183.8	184.9	182.5	179.0	180.1	179.0	177.8	177.8
5°	181.4	175.4	173.2	171.9	171.9	170.8	165.8	167.0	165.8	164.6	164.6
7.5°	168.2	163.5	160.0	158.8	158.8	157.6	152.8	155.2	152.8	151.5	152.8
10°	152.8	148.0	146.7	144.5	144.5	143.2	139.7	140.8	139.7	139.7	139.7
12.5°	136.0	131.2	130.1	128.9	130.1	128.9	125.3	127.7	126.5	126.5	127.7
15°	118.1	114.5	114.5	113.4	114.5	113.4	112.1	113.4	113.4	113.4	115.8
17.5°	100.4	97.8	97.8	96.6	97.8	97.8	96.6	100.4	100.4	102.6	105.0
20°	82.4	80.0	81.2	81.2	83.6	83.6	83.6	87.2	88.3	90.7	94.2
22.5°	68.0	66.9	68.0	68.0	70.4	71.7	71.7	75.2	78.7	81.2	84.8
25°	54.9	54.9	57.3	57.3	58.4	60.8	62.0	66.9	69.3	71.7	75.2
26°	51.3	51.3	52.5	53.7	54.9	57.3	58.4	63.2	65.6	68.0	71.7
27°	46.6	46.6	48.9	50.1	51.3	53.7	56.1	59.6	62.0	65.6	68.0
28°	43.0	43.0	45.3	46.6	47.7	51.3	52.5	56.1	58.4	62.0	65.6
29°	39.3	40.6	43.0	43.0	45.3	47.7	48.9	53.7	56.1	58.4	62.0
30°	36.9	38.2	39.3	40.6	41.7	44.1	46.6	50.1	52.5	54.9	58.4
31°	34.6	35.8	36.9	38.2	39.3	41.7	44.1	47.7	50.1	52.5	56.1
32°	32.2	32.2	34.6	35.8	36.9	39.3	41.7	45.3	47.7	50.1	53.7
33°	29.8	31.1	32.2	33.5	34.6	36.9	39.3	41.7	44.1	47.7	51.3
34°	27.6	28.7	31.1	32.2	33.5	35.8	36.9	39.3	41.7	45.3	47.7
35°	25.0	27.6	28.7	29.8	31.1	33.5	34.6	38.2	39.3	43.0	45.3
36°	23.9	25.0	27.6	28.7	29.8	31.1	32.2	35.8	38.2	40.6	43.0
37°	21.5	23.9	25.0	26.2	27.6	29.8	31.1	33.5	35.8	38.2	40.6
38°	20.3	21.5	23.9	25.0	26.2	27.6	28.7	32.2	33.5	35.8	38.2
39°	19.1	20.3	22.7	23.9	23.9	26.2	27.6	29.8	31.1	33.5	36.9
40°	17.9	19.1	21.5	21.5	22.7	25.0	26.2	28.7	29.8	32.2	34.6
42.5°	15.5	16.7	17.9	19.1	20.3	21.5	22.7	25.0	26.2	27.6	29.8
45°	13.2	14.4	16.7	16.7	17.9	19.1	20.3	21.5	22.7	25.0	26.2
47.5°	10.8	13.2	14.4	15.5	15.5	16.7	17.9	19.1	20.3	21.5	22.7
50°	9.6	10.8	12.0	13.2	13.2	14.4	15.5	16.7	16.7	17.9	20.3
51°	9.6	10.8	12.0	12.0	13.2	14.4	14.4	15.5	16.7	16.7	17.9
52°	8.3	9.6	10.8	12.0	12.0	13.2	14.4	14.4	15.5	16.7	17.9
53°	8.3	9.6	10.8	10.8	12.0	13.2	13.2	14.4	14.4	15.5	16.7
54°	8.3	9.6	10.8	10.8	12.0	12.0	13.2	13.2	14.4	14.4	15.5
55°	7.2	8.3	9.6	10.8	10.8	12.0	12.0	13.2	13.2	14.4	14.4
57.5°	7.2	8.3	9.6	9.6	9.6	10.8	10.8	12.0	12.0	12.0	13.2
60°	7.2	8.3	8.3	9.6	9.6	10.8	10.8	10.8	10.8	12.0	12.0
61°	7.2	7.2	8.3	9.6	9.6	9.6	10.8	10.8	10.8	10.8	12.0
62°	7.2	7.2	8.3	8.3	9.6	9.6	9.6	10.8	10.8	10.8	10.8
63°	5.9	7.2	8.3	8.3	9.6	9.6	9.6	9.6	9.6	10.8	10.8
64°	5.9	7.2	8.3	8.3	8.3	9.6	9.6	9.6	9.6	9.6	9.6
65°	5.9	7.2	8.3	8.3	8.3	9.6	9.6	9.6	9.6	9.6	9.6
66°	5.9	7.2	8.3	8.3	8.3	9.6	9.6	9.6	9.6	9.6	9.6



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CATALOG NUMBER: LDSQA4A25950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	5.9	5.9	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
75°	5.9	5.9	5.9	7.2	7.2	7.2	7.2	7.2	7.2	5.9	5.9
77.5°	4.8	4.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	4.8
80°	4.8	4.8	5.9	5.9	5.9	5.9	5.9	5.9	4.8	4.8	4.8
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.5	3.5
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.5	3.5	2.4
87.5°	3.5	4.8	4.8	4.8	4.8	4.8	3.5	3.5	3.5	2.4	2.4
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

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CATALOG NUMBER: LDSQA4A25950D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3
2.5°	179.0	175.4	174.2	174.2	175.4	174.2	175.4	174.2
5°	164.6	161.1	161.1	160.0	161.1	160.0	161.1	160.0
7.5°	152.8	149.1	149.1	149.1	149.1	149.1	150.4	149.1
10°	140.8	137.3	137.3	136.0	137.3	137.3	138.4	137.3
12.5°	128.9	126.5	126.5	125.3	127.7	126.5	128.9	127.7
15°	118.1	115.8	115.8	117.0	118.1	118.1	119.4	119.4
17.5°	107.3	107.3	107.3	108.6	109.7	111.0	112.1	111.0
20°	97.8	97.8	99.1	100.4	101.5	102.6	103.8	103.8
22.5°	88.3	88.3	89.5	91.9	94.2	95.4	96.6	96.6
25°	78.7	80.0	81.2	82.4	86.0	87.2	88.3	88.3
26°	75.2	76.3	78.7	80.0	82.4	83.6	86.0	86.0
27°	72.8	73.9	75.2	76.3	80.0	81.2	83.6	82.4
28°	69.3	70.4	71.7	73.9	76.3	78.7	80.0	80.0
29°	65.6	68.0	69.3	70.4	73.9	75.2	76.3	76.3
30°	63.2	64.5	65.6	68.0	70.4	72.8	73.9	73.9
31°	59.6	62.0	63.2	64.5	68.0	69.3	71.7	71.7
32°	57.3	58.4	59.6	62.0	64.5	66.9	68.0	68.0
33°	53.7	56.1	57.3	58.4	62.0	64.5	65.6	64.5
34°	51.3	53.7	53.7	56.1	58.4	60.8	62.0	62.0
35°	48.9	50.1	51.3	53.7	56.1	58.4	59.6	59.6
36°	46.6	47.7	48.9	51.3	53.7	56.1	57.3	57.3
37°	44.1	45.3	46.6	47.7	51.3	53.7	54.9	54.9
38°	41.7	43.0	44.1	46.6	48.9	50.1	52.5	52.5
39°	39.3	40.6	41.7	44.1	46.6	47.7	50.1	48.9
40°	36.9	39.3	39.3	41.7	44.1	45.3	47.7	46.6
42.5°	32.2	33.5	34.6	35.8	38.2	40.6	41.7	41.7
45°	28.7	29.8	31.1	32.2	33.5	34.6	36.9	35.8
47.5°	23.9	25.0	26.2	27.6	28.7	29.8	31.1	31.1
50°	21.5	21.5	22.7	22.7	25.0	26.2	27.6	27.6
51°	19.1	20.3	21.5	21.5	23.9	23.9	25.0	25.0
52°	19.1	19.1	20.3	20.3	21.5	22.7	23.9	23.9
53°	17.9	17.9	19.1	19.1	20.3	21.5	22.7	22.7
54°	16.7	16.7	17.9	17.9	19.1	20.3	21.5	21.5
55°	15.5	15.5	16.7	16.7	17.9	19.1	20.3	20.3
57.5°	13.2	14.4	14.4	15.5	15.5	16.7	16.7	17.9
60°	12.0	13.2	13.2	13.2	14.4	14.4	14.4	14.4
61°	12.0	12.0	12.0	13.2	13.2	12.0	13.2	12.0
62°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
63°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
64°	10.8	9.6	9.6	9.6	9.6	9.6	9.6	9.6
65°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	8.3
66°	9.6	9.6	8.3	9.6	8.3	8.3	8.3	8.3

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	5.9	5.9	5.9	5.9	5.9	4.8	4.8	4.8
75°	5.9	5.9	5.9	4.8	4.8	4.8	4.8	3.5
77.5°	4.8	4.8	4.8	4.8	3.5	3.5	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	2.4	2.4
82.5°	3.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	2.4	2.4	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



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Peachtree City, GA 30269

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— 0°-180° - - 45°-225° - - - 90°-270°

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67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	3.5
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	3.5

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67.5°	3.5	4.8	4.8	4.8	4.8	4.8	4.8	3.5	4.8	4.8	5.9
70°	3.5	4.8	4.8	4.8	4.8	4.8	4.8	3.5	4.8	4.8	4.8

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67.5°	5.9	7.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
70°	5.9	7.2	7.2	7.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3

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67.5°	8.3	8.3	8.3	8.3	8.3	7.2	7.2	7.2
70°	7.2	7.2	7.2	7.2	7.2	5.9	5.9	5.9

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(END OF REPORT)