

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: P1219545

Luminaire Tested: **LDSQA4A25950D010TE LAR15SP 4LSQAL1H 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: P1219545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26802)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25950D010TE LAR15SP 4LSQAL1H 30°
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

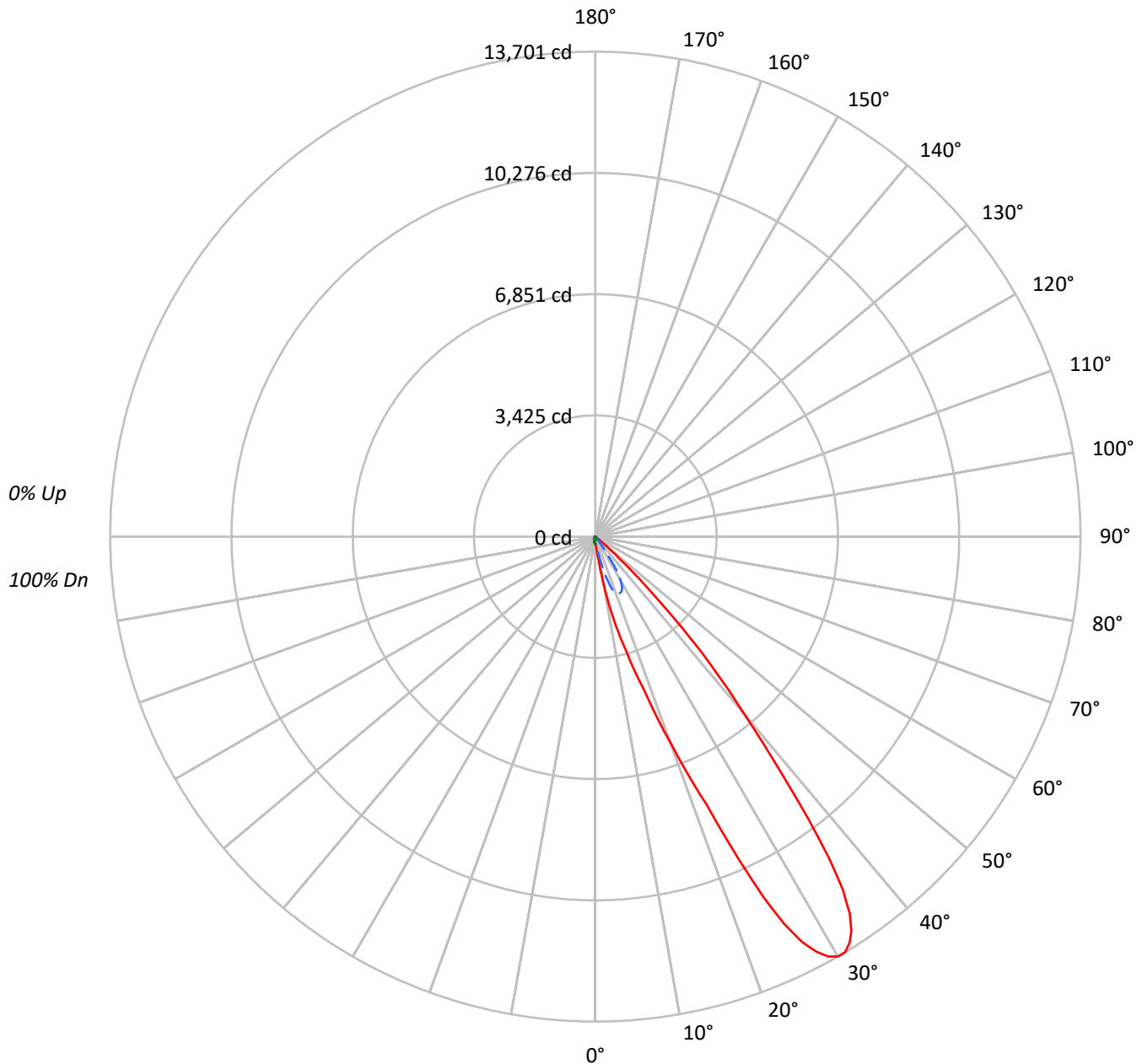
Lumens per Lamp: N/A
Luminaire Lumens: 2150.6 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: LDSQA4A25950D010TE LAR15SP 4LSQAL1H 30°

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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83		
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75		
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67		
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	70	59	52	47	69	58	52	47	57	51	47	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19656	19656	19656
5°	31235	18691	16143
10°	136803	16565	13742
15°	334266	13409	11975
20°	637731	9969	10948
25°	1201863	7151	9567
30°	1532455	5067	8412
35°	1441556	3110	7202
40°	826972	2112	6184
45°	319230	1480	5233
50°	42455	1085	4325
55°	6452	996	3631
60°	1860	930	3003
65°	1100	1100	2201
70°	680	1360	1671
75°	898	1310	1310
80°	0	1953	1339
85°	0	3890	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	1.2
10°-20°	230.5	10.7
20°-30°	735.0	34.2
30°-40°	851.7	39.6
40°-50°	277.0	12.9
50°-60°	17.5	0.8
60°-70°	6.4	0.3
70°-80°	4.5	0.2
80°-90°	2.7	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°	990.9	46.1
0°-40°	1842.6	85.7
0°-60°	2137.1	99.4
0°-90°	2150.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2150.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	203	203	203	203	203	
5°	321	269	192	168	166	62
15°	3333	1201	134	115	119	1057
25°	11244	1727	67	70	90	5052
35°	12189	412	26	41	61	7013
45°	2330	50	11	24	38	2081
55°	38	10	6	13	22	59
65°	5	4	5	10	10	4
75°	2	4	4	6	4	2
85°	0	2	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°	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9
2.5°	247.2	249.6	249.6	245.9	245.9	242.2	239.9	238.8	237.5	234.0	232.9
5°	321.2	323.4	324.7	315.2	311.6	304.4	298.5	292.4	285.3	277.0	268.6
7.5°	619.5	569.4	577.8	506.2	493.0	462.0	436.9	397.5	368.9	340.2	317.6
10°	1390.7	1343.0	1334.6	1229.6	1125.7	1048.1	964.5	820.0	688.8	549.1	435.8
12.5°	2382.6	2312.2	2272.9	2066.4	1944.7	1830.0	1702.3	1476.6	1224.8	1009.9	785.5
15°	3332.9	3327.0	3186.1	2955.7	2724.2	2583.3	2418.5	2139.2	1840.8	1513.7	1200.9
17.5°	4480.1	4526.7	4285.6	3835.5	3468.9	3239.8	3013.1	2576.1	2203.7	1886.0	1543.5
20°	6186.0	6061.8	5640.4	4936.2	4316.5	3971.6	3619.4	2976.0	2442.4	2058.0	1710.7
22.5°	8190.3	8094.7	7306.9	6132.3	5149.9	4665.1	4180.5	3343.7	2648.9	2151.1	1742.9
25°	11243.9	10851.3	9322.0	7415.5	5913.9	5227.4	4605.4	3582.5	2742.1	2163.1	1727.3
26°	12181.0	11905.3	10140.9	7925.3	6148.9	5382.5	4711.7	3631.4	2749.1	2152.4	1697.5
27°	12845.9	12635.8	10822.6	8300.0	6319.7	5490.1	4781.0	3651.6	2732.5	2129.7	1656.9
28°	13283.9	13115.6	11337.0	8571.1	6423.6	5547.4	4814.4	3646.9	2699.0	2090.3	1599.5
29°	13562.1	13399.8	11637.8	8725.1	6460.6	5556.9	4805.9	3611.1	2645.3	2031.8	1517.3
30°	13699.5	13522.7	11739.3	8741.7	6419.9	5502.0	4742.7	3532.3	2571.4	1961.4	1426.6
31°	13700.6	13504.8	11654.6	8612.9	6299.4	5384.9	4630.5	3400.9	2474.6	1877.8	1304.8
32°	13541.8	13340.1	11371.6	8351.4	6110.7	5238.2	4480.1	3267.3	2373.2	1784.6	1129.3
33°	13275.7	13036.9	10881.0	7988.6	5869.7	5037.6	4299.8	3118.0	2271.7	1635.4	898.9
34°	12845.9	12520.0	10195.8	7548.1	5578.5	4803.6	4093.3	2956.8	2169.1	1427.7	642.2
35°	12189.4	11729.7	9403.2	7061.0	5266.8	4550.5	3860.6	2788.6	2043.6	1171.1	411.8
36°	11239.2	10645.9	8578.3	6557.3	4945.7	4284.4	3624.2	2626.2	1845.6	888.1	269.8
37°	9998.8	9476.0	7789.2	6049.9	4612.6	4000.3	3408.2	2462.6	1601.9	620.8	219.6
38°	8725.1	8339.6	7018.0	5546.1	4267.6	3693.5	3145.5	2292.0	1335.8	408.2	183.8
39°	7576.7	7318.8	6263.6	5047.2	3912.0	3424.8	2883.0	2074.7	1051.6	290.1	155.2
40°	6539.3	6361.5	5534.2	4538.7	3556.2	3100.2	2635.8	1808.6	758.1	231.6	130.1
42.5°	4459.8	4371.5	3871.3	3266.1	2631.0	2369.6	2075.9	1087.5	300.9	146.8	78.8
45°	2330.1	2292.0	2110.5	1912.4	1715.4	1647.4	1334.6	488.3	169.5	86.0	50.1
47.5°	907.2	909.7	752.0	642.2	610.0	567.0	429.7	175.4	95.6	52.5	33.5
50°	281.7	303.3	279.3	263.8	201.8	168.4	139.7	87.2	51.3	32.2	21.5
51°	173.2	183.8	173.2	173.2	142.1	124.1	106.2	66.9	40.6	26.3	19.1
52°	112.3	118.1	112.3	105.0	98.0	88.3	76.4	50.1	32.2	21.5	15.5
53°	76.4	80.0	76.4	71.7	65.6	60.9	53.7	36.9	26.3	17.9	13.2
54°	53.7	56.1	53.7	50.1	46.6	43.1	39.3	28.7	21.5	15.5	12.0
55°	38.2	40.6	39.3	36.9	33.5	32.2	29.8	22.7	17.9	13.2	9.6
57.5°	17.9	19.1	19.1	17.9	17.9	16.7	15.5	14.4	10.8	8.3	7.2
60°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	7.2	5.9	5.9
61°	7.2	7.2	7.2	7.2	7.2	7.2	8.3	7.2	5.9	5.9	4.8
62°	5.9	5.9	5.9	5.9	5.9	7.2	7.2	5.9	5.9	4.8	4.8
63°	4.8	4.8	4.8	4.8	5.9	5.9	5.9	5.9	4.8	4.8	4.8
64°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	3.5
65°	4.8	4.8	3.5	3.5	3.5	4.8	3.5	4.8	3.5	3.5	3.5
66°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	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	1.1	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	2.4
82.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.4	2.4
85°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	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

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9
2.5°	225.6	219.6	217.3	214.9	213.7	211.2	207.7	204.2	202.9	198.1	193.3
5°	254.3	243.5	235.2	226.8	224.4	218.5	211.2	202.9	199.4	192.2	186.2
7.5°	287.7	266.2	250.7	236.4	230.5	223.2	210.1	199.4	192.2	181.5	174.2
10°	343.7	293.7	263.8	238.8	229.2	219.6	202.9	188.6	179.1	168.4	160.0
12.5°	544.3	380.8	286.5	239.9	226.8	212.5	192.2	175.4	163.6	151.6	144.5
15°	858.3	580.1	371.3	251.9	222.0	200.5	176.6	157.6	145.7	133.7	126.5
17.5°	1146.1	780.7	484.6	280.6	224.4	189.8	157.6	138.4	125.3	114.6	109.7
20°	1284.5	875.1	539.6	286.5	210.1	169.5	136.0	118.1	106.2	96.7	91.9
22.5°	1297.6	869.0	506.2	244.6	174.2	143.2	114.6	98.0	88.3	81.2	76.4
25°	1235.5	771.2	405.8	180.3	136.0	119.4	94.3	80.0	72.8	66.9	63.2
26°	1187.8	715.0	356.9	156.4	124.1	108.6	86.0	73.9	66.9	62.1	58.4
27°	1122.1	649.4	299.6	134.9	114.6	98.0	78.8	68.0	62.1	58.4	54.9
28°	1043.4	584.9	248.4	119.4	103.8	88.3	72.8	62.1	57.3	53.7	50.1
29°	958.7	500.1	194.5	107.3	93.1	80.0	65.6	56.1	51.3	48.9	46.6
30°	839.2	389.2	149.2	96.7	83.6	71.7	59.7	51.3	47.7	45.3	43.1
31°	670.9	267.4	120.5	86.0	75.2	64.5	53.7	46.6	43.1	40.6	39.3
32°	481.0	164.7	105.0	76.4	66.9	58.4	46.6	41.7	38.2	36.9	35.8
33°	296.0	134.9	93.1	68.0	58.4	51.3	41.7	36.9	34.6	33.5	32.2
34°	194.5	117.0	82.4	58.4	51.3	44.2	35.8	32.2	31.1	29.8	29.8
35°	164.7	103.8	71.7	50.1	43.1	38.2	31.1	28.7	27.6	26.3	27.6
36°	142.1	90.7	59.7	43.1	36.9	32.2	27.6	25.0	23.9	23.9	25.0
37°	125.3	76.4	50.1	35.8	32.2	28.7	23.9	22.7	21.5	21.5	22.7
38°	106.2	62.1	41.7	31.1	27.6	23.9	21.5	20.3	20.3	20.3	21.5
39°	87.2	52.5	35.8	26.3	23.9	21.5	19.1	17.9	17.9	19.1	19.1
40°	71.7	44.2	29.8	22.7	20.3	19.1	16.7	16.7	16.7	16.7	17.9
42.5°	46.6	29.8	21.5	16.7	15.5	14.4	13.2	13.2	13.2	13.2	14.4
45°	31.1	21.5	16.7	13.2	12.0	10.8	10.8	9.6	10.8	10.8	12.0
47.5°	21.5	15.5	12.0	9.6	8.3	7.2	7.2	7.2	8.3	9.6	9.6
50°	15.5	10.8	8.3	5.9	5.9	5.9	5.9	5.9	7.2	7.2	8.3
51°	13.2	9.6	7.2	5.9	5.9	4.8	4.8	4.8	5.9	7.2	8.3
52°	10.8	8.3	5.9	4.8	4.8	4.8	4.8	4.8	5.9	5.9	7.2
53°	9.6	7.2	5.9	4.8	4.8	4.8	4.8	4.8	5.9	5.9	7.2
54°	8.3	5.9	4.8	4.8	4.8	3.5	3.5	4.8	4.8	5.9	7.2
55°	7.2	5.9	4.8	4.8	3.5	3.5	3.5	3.5	4.8	5.9	5.9
57.5°	5.9	4.8	4.8	3.5	3.5	3.5	3.5	3.5	4.8	4.8	5.9
60°	4.8	4.8	4.8	3.5	3.5	3.5	3.5	3.5	4.8	4.8	5.9
61°	4.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	4.8	5.9
62°	4.8	3.5	4.8	4.8	4.8	3.5	3.5	3.5	4.8	4.8	5.9
63°	4.8	4.8	4.8	4.8	4.8	3.5	3.5	3.5	4.8	4.8	4.8
64°	4.8	4.8	4.8	4.8	4.8	4.8	3.5	3.5	4.8	4.8	5.9
65°	3.5	4.8	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	4.8	3.5	4.8	4.8	4.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	3.5	3.5	4.8	4.8	4.8	4.8	4.8	3.5	3.5	4.8	4.8
75°	3.5	3.5	4.8	4.8	4.8	4.8	4.8	3.5	3.5	3.5	4.8
77.5°	3.5	3.5	4.8	4.8	4.8	4.8	4.8	3.5	3.5	3.5	4.8
80°	3.5	3.5	4.8	4.8	4.8	4.8	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	4.8	4.8	3.5	3.5	3.5	3.5	3.5	3.5
85°	3.5	3.5	3.5	4.8	4.8	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	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°	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9
2.5°	190.9	190.9	189.8	187.4	189.8	187.4	185.0	183.8	182.7	181.5	179.1
5°	181.5	180.3	177.8	176.6	176.6	174.2	171.9	169.5	168.4	167.1	164.7
7.5°	169.5	168.4	164.7	163.6	163.6	161.1	157.6	156.4	155.2	154.0	151.6
10°	155.2	154.0	150.4	149.2	149.2	146.8	144.5	142.1	140.8	139.7	137.3
12.5°	138.4	137.3	134.9	133.7	133.7	131.4	129.0	127.7	127.7	126.5	125.3
15°	121.7	120.5	118.1	118.1	118.1	115.8	114.6	113.5	114.6	114.6	113.5
17.5°	105.0	103.8	101.5	101.5	101.5	101.5	100.4	100.4	101.5	102.6	102.6
20°	88.3	87.2	87.2	86.0	87.2	88.3	87.2	88.3	90.7	91.9	93.1
22.5°	72.8	72.8	72.8	72.8	73.9	75.2	75.2	77.6	80.0	81.2	83.6
25°	60.9	60.9	62.1	62.1	63.2	64.5	65.6	66.9	70.4	72.8	73.9
26°	56.1	57.3	57.3	58.4	59.7	60.9	62.1	63.2	66.9	69.3	70.4
27°	52.5	52.5	53.7	54.9	56.1	57.3	58.4	60.9	63.2	65.6	68.0
28°	48.9	48.9	50.1	51.3	52.5	53.7	54.9	57.3	59.7	63.2	64.5
29°	45.3	46.6	46.6	47.7	48.9	50.1	52.5	53.7	57.3	59.7	62.1
30°	41.7	43.1	44.2	44.2	45.3	46.6	48.9	51.3	53.7	57.3	58.4
31°	39.3	40.6	40.6	41.7	43.1	44.2	46.6	48.9	51.3	53.7	56.1
32°	35.8	38.2	38.2	38.2	39.3	41.7	44.2	45.3	48.9	51.3	52.5
33°	33.5	34.6	35.8	35.8	36.9	39.3	41.7	43.1	46.6	48.9	50.1
34°	31.1	32.2	33.5	33.5	34.6	36.9	39.3	40.6	44.2	45.3	47.7
35°	28.7	29.8	31.1	31.1	32.2	34.6	36.9	38.2	40.6	43.1	45.3
36°	26.3	27.6	28.7	29.8	31.1	33.5	34.6	36.9	38.2	40.6	43.1
37°	23.9	25.0	27.6	27.6	29.8	31.1	33.5	34.6	36.9	38.2	40.6
38°	21.5	23.9	25.0	26.3	27.6	29.8	31.1	32.2	34.6	36.9	38.2
39°	20.3	22.7	23.9	25.0	26.3	27.6	28.7	31.1	32.2	34.6	35.8
40°	19.1	20.3	22.7	22.7	25.0	26.3	27.6	28.7	31.1	32.2	34.6
42.5°	15.5	17.9	19.1	20.3	21.5	22.7	23.9	25.0	26.3	28.7	29.8
45°	13.2	15.5	16.7	16.7	17.9	19.1	20.3	21.5	23.9	25.0	26.3
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	14.4	14.4	15.5	16.7	17.9	19.1	19.1
51°	9.6	10.8	12.0	12.0	13.2	14.4	15.5	15.5	16.7	17.9	17.9
52°	8.3	9.6	10.8	12.0	13.2	13.2	14.4	15.5	15.5	16.7	17.9
53°	8.3	9.6	10.8	10.8	12.0	13.2	13.2	14.4	15.5	15.5	16.7
54°	7.2	9.6	10.8	10.8	12.0	12.0	13.2	14.4	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	10.8	10.8	12.0	12.0	12.0	12.0	13.2
60°	5.9	7.2	8.3	9.6	9.6	10.8	10.8	10.8	10.8	10.8	12.0
61°	5.9	7.2	8.3	8.3	9.6	9.6	10.8	10.8	10.8	10.8	10.8
62°	5.9	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	9.6	10.8
64°	5.9	7.2	8.3	8.3	9.6	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	8.3	9.6	9.6	9.6	9.6	8.3



TEST NUMBER: P1219545

CATALOG NUMBER: LDSQA4A25950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

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

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219545

CATALOG NUMBER: LDSQA4A25950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	202.9	202.9	202.9	202.9	202.9	202.9	202.9	202.9
2.5°	181.5	182.7	181.5	181.5	179.1	180.3	177.8	181.5
5°	166.0	167.1	166.0	166.0	163.6	163.6	162.4	166.0
7.5°	152.8	154.0	151.6	151.6	149.2	150.4	149.2	151.6
10°	139.7	139.7	139.7	138.4	137.3	138.4	137.3	139.7
12.5°	126.5	127.7	127.7	127.7	126.5	126.5	125.3	129.0
15°	115.8	117.0	118.1	118.1	117.0	118.1	117.0	119.4
17.5°	106.2	108.6	108.6	109.7	109.7	111.1	111.1	113.5
20°	96.7	100.4	100.4	101.5	101.5	103.8	103.8	106.2
22.5°	87.2	90.7	91.9	91.9	93.1	95.6	95.6	98.0
25°	78.8	82.4	83.6	83.6	84.8	87.2	87.2	89.5
26°	75.2	78.8	80.0	81.2	82.4	84.8	84.8	87.2
27°	71.7	75.2	76.4	77.6	78.8	81.2	81.2	83.6
28°	69.3	72.8	73.9	75.2	76.4	78.8	78.8	80.0
29°	65.6	69.3	70.4	71.7	72.8	75.2	75.2	77.6
30°	63.2	65.6	66.9	68.0	69.3	72.8	72.8	75.2
31°	59.7	63.2	64.5	65.6	66.9	69.3	69.3	72.8
32°	57.3	59.7	60.9	62.1	64.5	65.6	66.9	69.3
33°	53.7	57.3	58.4	59.7	60.9	63.2	64.5	66.9
34°	51.3	53.7	56.1	57.3	58.4	60.9	62.1	64.5
35°	48.9	51.3	52.5	53.7	56.1	58.4	58.4	60.9
36°	46.6	48.9	50.1	51.3	53.7	56.1	56.1	58.4
37°	44.2	46.6	47.7	48.9	51.3	53.7	53.7	56.1
38°	41.7	44.2	45.3	46.6	48.9	51.3	52.5	54.9
39°	39.3	43.1	44.2	45.3	46.6	48.9	50.1	51.3
40°	38.2	40.6	41.7	43.1	44.2	46.6	47.7	48.9
42.5°	32.2	35.8	36.9	38.2	39.3	40.6	41.7	43.1
45°	28.7	31.1	31.1	32.2	33.5	35.8	35.8	38.2
47.5°	25.0	26.3	27.6	27.6	28.7	31.1	31.1	32.2
50°	21.5	22.7	23.9	23.9	25.0	26.3	27.6	28.7
51°	20.3	21.5	21.5	22.7	23.9	25.0	26.3	27.6
52°	19.1	20.3	20.3	21.5	22.7	23.9	23.9	25.0
53°	17.9	19.1	19.1	20.3	20.3	22.7	22.7	23.9
54°	16.7	17.9	17.9	19.1	19.1	21.5	21.5	22.7
55°	15.5	16.7	17.9	17.9	17.9	19.1	20.3	21.5
57.5°	14.4	15.5	15.5	15.5	16.7	16.7	17.9	17.9
60°	12.0	13.2	13.2	13.2	14.4	14.4	14.4	15.5
61°	12.0	12.0	13.2	13.2	12.0	12.0	12.0	13.2
62°	10.8	12.0	12.0	10.8	10.8	10.8	10.8	12.0
63°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
64°	9.6	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	8.3	9.6
66°	8.3	9.6	9.6	8.3	8.3	8.3	8.3	8.3



TEST NUMBER: P1219545

CATALOG NUMBER: LDSQA4A25950D010TE LAR15SP 4LSQAL1H 30°

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	4.8	4.8	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	1.1	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

1121 Highway 74 South

Peachtree City, GA 30269



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1121 Highway 74 South

Peachtree City, GA 30269

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— 0°-180° - - 45°-225° - - - 90°-270°

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





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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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





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

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





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

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1121 Highway 74 South

Peachtree City, GA 30269

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1121 Highway 74 South
Peachtree City, GA 30269

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

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Scaled Data Report



(END OF REPORT)