

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: P1219473

Luminaire Tested: **LDSQA4A15930D010TE 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: P1219473
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: LDSQA4A15930D010TE 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 / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

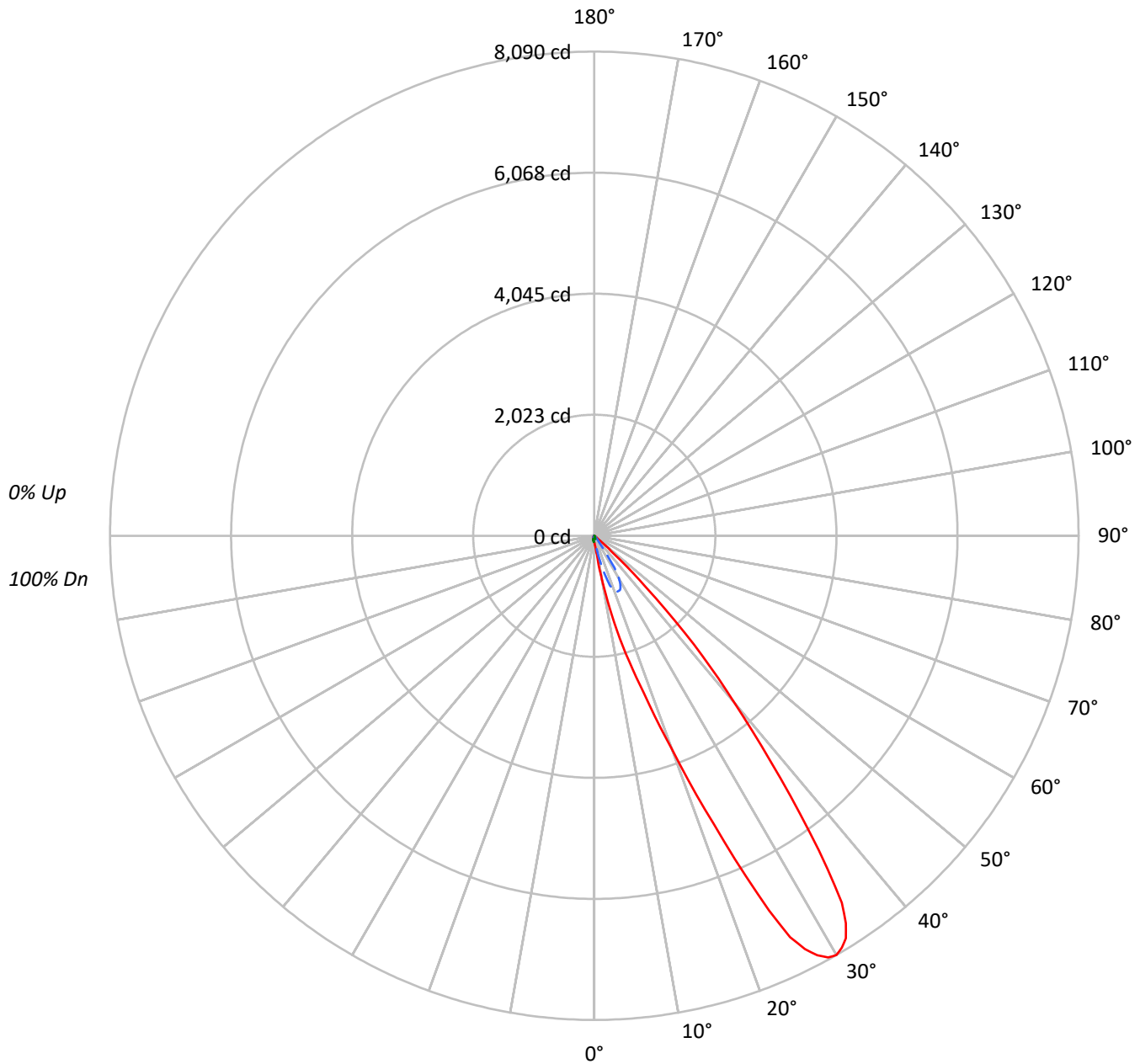
Lumens per Lamp: N/A
Luminaire Lumens: 1244.1 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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

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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°	10385	10385	10385
5°	17300	9802	8363
10°	73787	8588	7270
15°	204246	6830	6449
20°	391762	4835	5753
25°	738654	3228	5077
30°	904987	2159	4452
35°	803728	1443	3796
40°	458070	974	3162
45°	167088	781	2644
50°	18402	588	2231
55°	2702	439	1841
60°	620	504	1492
65°	436	596	1032
70°	368	736	906
75°	487	973	711
80°	0	1450	725
85°	0	2112	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	1.1
10°-20°	134.8	10.8
20°-30°	442.8	35.6
30°-40°	485.6	39.0
40°-50°	151.7	12.2
50°-60°	8.3	0.7
60°-70°	3.3	0.3
70°-80°	2.6	0.2
80°-90°	1.6	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°	591.1	47.5
0°-40°	1076.7	86.5
0°-60°	1236.6	99.4
0°-90°	1244.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1244.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	107	107	107	107	107	
5°	178	143	101	89	86	33
15°	2036	654	68	61	64	640
25°	6910	1005	30	37	48	3080
35°	6796	198	12	21	32	3973
45°	1220	21	6	12	19	1120
55°	16	4	3	7	11	25
65°	2	2	3	5	4	2
75°	1	2	3	4	2	1
85°	0	2	2	2	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°	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2
2.5°	132.3	133.6	134.2	131.0	131.7	130.4	131.7	129.1	124.6	125.8	122.1
5°	177.9	175.3	174.7	169.6	168.3	165.7	165.7	159.9	151.6	150.3	142.6
7.5°	314.7	301.2	289.7	272.3	255.6	242.7	237.6	217.1	194.6	186.2	168.3
10°	750.1	747.5	718.6	664.1	601.1	555.5	529.2	449.6	348.8	287.1	222.8
12.5°	1365.4	1352.5	1311.5	1211.3	1102.7	1034.6	981.3	820.8	671.1	551.0	395.0
15°	2036.5	1984.5	1924.2	1768.7	1616.5	1527.9	1452.1	1259.4	1027.5	854.8	654.4
17.5°	2753.3	2776.4	2629.9	2362.1	2091.8	1953.1	1824.6	1528.5	1274.8	1095.0	869.6
20°	3800.1	3751.3	3493.7	3050.0	2651.1	2419.3	2236.9	1809.8	1427.1	1202.8	989.7
22.5°	5214.9	5059.5	4557.3	3806.5	3173.9	2852.2	2593.3	2017.9	1554.8	1258.1	1008.9
25°	6910.4	6766.6	5836.5	4534.1	3598.5	3181.6	2829.7	2150.2	1606.2	1267.1	1005.0
26°	7464.0	7250.2	6308.7	4793.0	3728.8	3265.1	2888.1	2175.9	1607.5	1260.1	988.4
27°	7750.4	7582.8	6699.1	5003.0	3818.0	3317.8	2920.9	2182.3	1594.7	1244.0	962.7
28°	7939.2	7782.6	6946.3	5140.4	3863.7	3338.3	2930.5	2168.2	1565.8	1215.7	922.3
29°	8056.1	7891.1	7067.1	5202.7	3866.8	3329.4	2912.5	2130.9	1526.6	1181.7	875.4
30°	8090.2	7911.7	7070.3	5177.0	3819.3	3281.2	2861.8	2070.6	1479.1	1138.7	823.4
31°	8029.8	7845.5	6954.1	5060.1	3721.7	3187.4	2782.1	1990.9	1420.0	1093.1	743.1
32°	7929.6	7685.0	6710.7	4866.1	3588.2	3074.3	2682.6	1904.2	1357.0	1035.2	630.0
33°	7716.4	7420.9	6338.2	4622.8	3427.6	2944.7	2566.4	1807.8	1297.3	935.7	468.2
34°	7395.9	7022.8	5881.6	4339.6	3245.8	2782.8	2432.7	1718.6	1235.0	804.1	320.5
35°	6796.1	6448.7	5377.4	4037.7	3050.0	2626.1	2285.7	1601.7	1150.3	644.8	197.8
36°	6124.9	5869.3	4888.6	3730.7	2849.6	2463.6	2134.1	1515.7	1025.0	474.6	134.2
37°	5439.1	5212.4	4427.6	3428.9	2648.5	2283.7	1980.0	1418.1	876.1	316.6	107.9
38°	4785.9	4606.1	3989.5	3132.2	2439.9	2095.6	1818.1	1314.0	715.5	203.5	88.6
39°	4186.0	4051.2	3560.5	2845.1	2230.5	1911.3	1662.7	1183.0	545.9	145.1	73.9
40°	3622.2	3527.2	3146.9	2561.8	2022.4	1730.1	1522.1	1024.4	378.9	114.9	59.7
42.5°	2463.6	2439.9	2214.4	1843.9	1502.2	1331.4	1203.5	576.1	145.8	69.4	33.4
45°	1219.6	1236.3	1146.4	1054.5	983.3	931.2	758.4	240.2	80.9	37.9	20.6
47.5°	431.5	432.2	371.8	331.4	316.6	315.3	229.3	84.7	43.1	23.2	14.8
50°	122.1	131.7	123.9	126.5	98.9	84.2	68.7	41.1	21.9	14.8	9.6
51°	75.1	80.9	75.7	78.3	68.1	61.0	51.4	30.8	17.3	12.2	9.0
52°	48.2	51.4	48.8	49.5	45.6	39.8	34.6	22.5	14.2	10.3	7.7
53°	32.8	34.6	32.8	32.8	30.2	28.2	24.5	16.7	11.6	8.3	5.7
54°	22.5	23.2	23.2	23.2	21.2	19.9	17.3	12.9	9.6	7.7	5.1
55°	16.0	16.7	16.0	16.0	15.4	14.2	12.9	9.6	7.7	6.4	3.9
57.5°	7.0	7.0	7.0	7.7	7.0	7.0	6.4	5.7	5.1	3.9	2.6
60°	3.2	3.2	3.2	3.2	3.9	3.9	3.9	3.9	3.2	2.6	2.6
61°	2.6	2.6	2.6	2.6	2.6	3.2	3.2	3.2	2.6	2.6	1.9
62°	1.9	1.9	1.9	1.9	2.6	2.6	2.6	2.6	2.6	1.9	1.9
63°	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	1.9	1.9	1.9
64°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.9	1.3	1.3	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9
66°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9
77.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3	1.3	1.9
80°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3	1.3	1.9
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3	1.3	1.9
85°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3	1.3	1.9
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.3	1.3	1.9
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°	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2
2.5°	119.5	118.8	115.6	112.4	113.1	111.8	110.5	108.5	107.2	104.0	104.0
5°	136.1	133.0	125.8	119.5	118.8	116.2	112.4	108.5	105.3	100.8	99.6
7.5°	155.4	146.4	134.8	124.6	122.7	118.8	111.8	106.6	100.8	95.0	93.2
10°	183.1	161.9	142.0	126.5	122.7	116.9	107.9	100.8	94.4	87.3	84.7
12.5°	281.3	199.8	150.9	126.5	119.5	112.4	101.5	93.2	85.4	77.7	75.1
15°	468.9	319.2	191.4	126.5	113.7	105.3	91.9	83.5	75.1	68.1	65.5
17.5°	647.4	454.0	266.5	142.6	114.3	97.0	80.3	71.3	64.3	57.1	55.2
20°	750.8	529.2	316.0	158.6	113.1	87.3	68.7	59.1	52.0	46.9	44.9
22.5°	764.3	532.4	305.0	142.0	95.0	72.6	57.1	48.2	42.4	37.9	36.6
25°	728.2	470.2	244.0	100.8	70.7	59.1	44.9	38.5	34.1	30.2	29.5
26°	700.7	432.8	212.6	83.5	62.3	52.7	40.5	34.6	30.8	27.6	26.9
27°	661.5	393.0	181.8	69.4	55.2	47.5	35.9	31.5	28.2	25.0	25.0
28°	617.2	350.1	146.4	58.4	49.5	42.4	32.8	28.2	25.0	23.2	23.2
29°	563.9	287.7	107.2	50.7	43.7	37.2	28.9	25.0	22.5	21.2	21.2
30°	484.9	208.7	73.9	44.4	37.9	32.8	25.6	22.5	20.6	19.3	19.3
31°	378.9	128.4	57.8	38.5	33.4	28.9	23.2	19.9	18.6	17.3	18.0
32°	258.2	80.3	49.5	33.4	29.5	25.0	20.6	18.0	16.7	16.0	16.0
33°	147.1	66.8	43.1	28.9	25.0	21.9	18.0	16.0	15.4	14.8	14.8
34°	97.6	57.1	37.2	24.5	20.6	18.6	15.4	14.2	13.5	13.5	13.5
35°	82.2	49.5	30.2	20.6	18.0	16.0	13.5	12.9	12.2	12.2	12.9
36°	69.4	41.1	24.5	17.3	15.4	14.2	12.2	11.6	10.9	10.9	11.6
37°	58.4	32.8	20.6	14.8	12.9	12.2	10.9	10.3	10.3	10.3	10.9
38°	47.5	26.3	17.3	12.9	11.6	10.3	9.6	9.0	9.0	9.6	10.3
39°	37.2	21.2	14.2	10.9	9.6	9.0	8.3	8.3	8.3	8.3	9.0
40°	29.5	18.0	12.2	9.6	8.3	8.3	7.7	7.0	7.7	7.7	9.0
42.5°	18.6	12.9	9.0	7.0	6.4	6.4	5.7	5.7	5.7	6.4	7.0
45°	13.5	10.3	7.0	5.7	5.1	4.5	4.5	4.5	5.1	5.7	6.4
47.5°	10.3	7.0	5.1	3.9	3.2	3.2	3.2	3.2	3.9	4.5	5.1
50°	7.0	4.5	3.2	2.6	2.6	2.6	2.6	2.6	3.2	3.9	4.5
51°	5.7	3.9	3.2	2.6	2.6	1.9	1.9	2.6	3.2	3.2	3.9
52°	4.5	3.2	2.6	1.9	1.9	1.9	1.9	2.6	2.6	3.2	3.9
53°	3.9	3.2	2.6	1.9	1.9	1.9	1.9	1.9	2.6	3.2	3.9
54°	3.2	2.6	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.2	3.9
55°	2.6	2.6	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	3.2
57.5°	2.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.2
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.2
61°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.2
62°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	3.2
63°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.6	3.2
64°	1.9	1.9	1.9	1.9	2.6	2.6	1.9	1.9	2.6	2.6	3.2
65°	1.9	1.9	2.6	2.6	2.6	2.6	1.9	1.9	2.6	2.6	3.2
66°	1.9	2.6	2.6	2.6	2.6	2.6	1.9	1.9	2.6	2.6	3.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	1.9	2.6	2.6	2.6
75°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9	2.6	2.6
80°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9	2.6	2.6
82.5°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.9	2.6
85°	1.9	1.9	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	2.6	2.6	2.6	2.6	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1219473

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2
2.5°	102.8	100.8	99.6	98.9	99.6	98.3	96.3	97.0	96.3	95.7	95.7
5°	97.6	94.4	93.2	92.5	92.5	91.9	89.3	89.9	89.3	88.6	88.6
7.5°	90.6	88.0	86.0	85.4	85.4	84.7	82.2	83.5	82.2	81.6	82.2
10°	82.2	79.6	79.0	77.7	77.7	77.0	75.1	75.7	75.1	75.1	75.1
12.5°	73.3	70.7	70.0	69.4	70.0	69.4	67.4	68.7	68.1	68.1	68.7
15°	63.6	61.7	61.7	61.0	61.7	61.0	60.4	61.0	61.0	61.0	62.3
17.5°	54.0	52.7	52.7	52.0	52.7	52.7	52.0	54.0	54.0	55.2	56.5
20°	44.4	43.1	43.7	43.7	44.9	44.9	44.9	46.9	47.5	48.8	50.7
22.5°	36.6	35.9	36.6	36.6	37.9	38.5	38.5	40.5	42.4	43.7	45.6
25°	29.5	29.5	30.8	30.8	31.5	32.8	33.4	35.9	37.2	38.5	40.5
26°	27.6	27.6	28.2	28.9	29.5	30.8	31.5	34.1	35.3	36.6	38.5
27°	25.0	25.0	26.3	26.9	27.6	28.9	30.2	32.1	33.4	35.3	36.6
28°	23.2	23.2	24.5	25.0	25.6	27.6	28.2	30.2	31.5	33.4	35.3
29°	21.2	21.9	23.2	23.2	24.5	25.6	26.3	28.9	30.2	31.5	33.4
30°	19.9	20.6	21.2	21.9	22.5	23.8	25.0	26.9	28.2	29.5	31.5
31°	18.6	19.3	19.9	20.6	21.2	22.5	23.8	25.6	26.9	28.2	30.2
32°	17.3	17.3	18.6	19.3	19.9	21.2	22.5	24.5	25.6	26.9	28.9
33°	16.0	16.7	17.3	18.0	18.6	19.9	21.2	22.5	23.8	25.6	27.6
34°	14.8	15.4	16.7	17.3	18.0	19.3	19.9	21.2	22.5	24.5	25.6
35°	13.5	14.8	15.4	16.0	16.7	18.0	18.6	20.6	21.2	23.2	24.5
36°	12.9	13.5	14.8	15.4	16.0	16.7	17.3	19.3	20.6	21.9	23.2
37°	11.6	12.9	13.5	14.2	14.8	16.0	16.7	18.0	19.3	20.6	21.9
38°	10.9	11.6	12.9	13.5	14.2	14.8	15.4	17.3	18.0	19.3	20.6
39°	10.3	10.9	12.2	12.9	12.9	14.2	14.8	16.0	16.7	18.0	19.9
40°	9.6	10.3	11.6	11.6	12.2	13.5	14.2	15.4	16.0	17.3	18.6
42.5°	8.3	9.0	9.6	10.3	10.9	11.6	12.2	13.5	14.2	14.8	16.0
45°	7.0	7.7	9.0	9.0	9.6	10.3	10.9	11.6	12.2	13.5	14.2
47.5°	5.7	7.0	7.7	8.3	8.3	9.0	9.6	10.3	10.9	11.6	12.2
50°	5.1	5.7	6.4	7.0	7.0	7.7	8.3	9.0	9.0	9.6	10.9
51°	5.1	5.7	6.4	6.4	7.0	7.7	7.7	8.3	9.0	9.0	9.6
52°	4.5	5.1	5.7	6.4	6.4	7.0	7.7	7.7	8.3	9.0	9.6
53°	4.5	5.1	5.7	5.7	6.4	7.0	7.0	7.7	7.7	8.3	9.0
54°	4.5	5.1	5.7	5.7	6.4	6.4	7.0	7.0	7.7	7.7	8.3
55°	3.9	4.5	5.1	5.7	5.7	6.4	6.4	7.0	7.0	7.7	7.7
57.5°	3.9	4.5	5.1	5.1	5.1	5.7	5.7	6.4	6.4	6.4	7.0
60°	3.9	4.5	4.5	5.1	5.1	5.7	5.7	5.7	5.7	6.4	6.4
61°	3.9	3.9	4.5	5.1	5.1	5.1	5.7	5.7	5.7	5.7	6.4
62°	3.9	3.9	4.5	4.5	5.1	5.1	5.1	5.7	5.7	5.7	5.7
63°	3.2	3.9	4.5	4.5	5.1	5.1	5.1	5.1	5.1	5.7	5.7
64°	3.2	3.9	4.5	4.5	4.5	5.1	5.1	5.1	5.1	5.1	5.1
65°	3.2	3.9	4.5	4.5	4.5	5.1	5.1	5.1	5.1	5.1	5.1
66°	3.2	3.9	4.5	4.5	4.5	5.1	5.1	5.1	5.1	5.1	5.1

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219473

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	3.2	3.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	3.2	3.2	3.2	3.9	3.9	3.9	3.9	3.9	3.9	3.2	3.2
77.5°	2.6	2.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.6
80°	2.6	2.6	3.2	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.3
87.5°	1.9	2.6	2.6	2.6	2.6	2.6	1.9	1.9	1.9	1.3	1.3
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: P1219473

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2
2.5°	96.3	94.4	93.8	93.8	94.4	93.8	94.4	93.8
5°	88.6	86.7	86.7	86.0	86.7	86.0	86.7	86.0
7.5°	82.2	80.3	80.3	80.3	80.3	80.3	80.9	80.3
10°	75.7	73.9	73.9	73.3	73.9	73.9	74.5	73.9
12.5°	69.4	68.1	68.1	67.4	68.7	68.1	69.4	68.7
15°	63.6	62.3	62.3	63.0	63.6	63.6	64.3	64.3
17.5°	57.8	57.8	57.8	58.4	59.1	59.7	60.4	59.7
20°	52.7	52.7	53.3	54.0	54.5	55.2	55.8	55.8
22.5°	47.5	47.5	48.2	49.5	50.7	51.4	52.0	52.0
25°	42.4	43.1	43.7	44.4	46.2	46.9	47.5	47.5
26°	40.5	41.1	42.4	43.1	44.4	44.9	46.2	46.2
27°	39.2	39.8	40.5	41.1	43.1	43.7	44.9	44.4
28°	37.2	37.9	38.5	39.8	41.1	42.4	43.1	43.1
29°	35.3	36.6	37.2	37.9	39.8	40.5	41.1	41.1
30°	34.1	34.6	35.3	36.6	37.9	39.2	39.8	39.8
31°	32.1	33.4	34.1	34.6	36.6	37.2	38.5	38.5
32°	30.8	31.5	32.1	33.4	34.6	35.9	36.6	36.6
33°	28.9	30.2	30.8	31.5	33.4	34.6	35.3	34.6
34°	27.6	28.9	28.9	30.2	31.5	32.8	33.4	33.4
35°	26.3	26.9	27.6	28.9	30.2	31.5	32.1	32.1
36°	25.0	25.6	26.3	27.6	28.9	30.2	30.8	30.8
37°	23.8	24.5	25.0	25.6	27.6	28.9	29.5	29.5
38°	22.5	23.2	23.8	25.0	26.3	26.9	28.2	28.2
39°	21.2	21.9	22.5	23.8	25.0	25.6	26.9	26.3
40°	19.9	21.2	21.2	22.5	23.8	24.5	25.6	25.0
42.5°	17.3	18.0	18.6	19.3	20.6	21.9	22.5	22.5
45°	15.4	16.0	16.7	17.3	18.0	18.6	19.9	19.3
47.5°	12.9	13.5	14.2	14.8	15.4	16.0	16.7	16.7
50°	11.6	11.6	12.2	12.2	13.5	14.2	14.8	14.8
51°	10.3	10.9	11.6	11.6	12.9	12.9	13.5	13.5
52°	10.3	10.3	10.9	10.9	11.6	12.2	12.9	12.9
53°	9.6	9.6	10.3	10.3	10.9	11.6	12.2	12.2
54°	9.0	9.0	9.6	9.6	10.3	10.9	11.6	11.6
55°	8.3	8.3	9.0	9.0	9.6	10.3	10.9	10.9
57.5°	7.0	7.7	7.7	8.3	8.3	9.0	9.0	9.6
60°	6.4	7.0	7.0	7.0	7.7	7.7	7.7	7.7
61°	6.4	6.4	6.4	7.0	7.0	6.4	7.0	6.4
62°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
63°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
64°	5.7	5.1	5.1	5.1	5.1	5.1	5.1	5.1
65°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.5
66°	5.1	5.1	4.5	5.1	4.5	4.5	4.5	4.5



TEST NUMBER: P1219473

CATALOG NUMBER: LDSQA4A15930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	3.2	3.2	3.2	3.2	3.2	2.6	2.6	2.6
75°	3.2	3.2	3.2	2.6	2.6	2.6	2.6	1.9
77.5°	2.6	2.6	2.6	2.6	1.9	1.9	1.9	1.9
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3
82.5°	1.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





— 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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Scaled Data Report





67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.9	1.9

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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67.5°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	1.9	2.6	2.6	3.2
70°	1.9	2.6	2.6	2.6	2.6	2.6	2.6	1.9	2.6	2.6	2.6

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Scaled Data Report



67.5°	3.2	3.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
70°	3.2	3.9	3.9	3.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5

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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report



67.5°	4.5	4.5	4.5	4.5	4.5	3.9	3.9	3.9
70°	3.9	3.9	3.9	3.9	3.9	3.2	3.2	3.2

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)