

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: P1212372

Luminaire Tested: **LDSQA4A35935D010TE 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: P1212372
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: LDSQA4A35935D010TE 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 / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

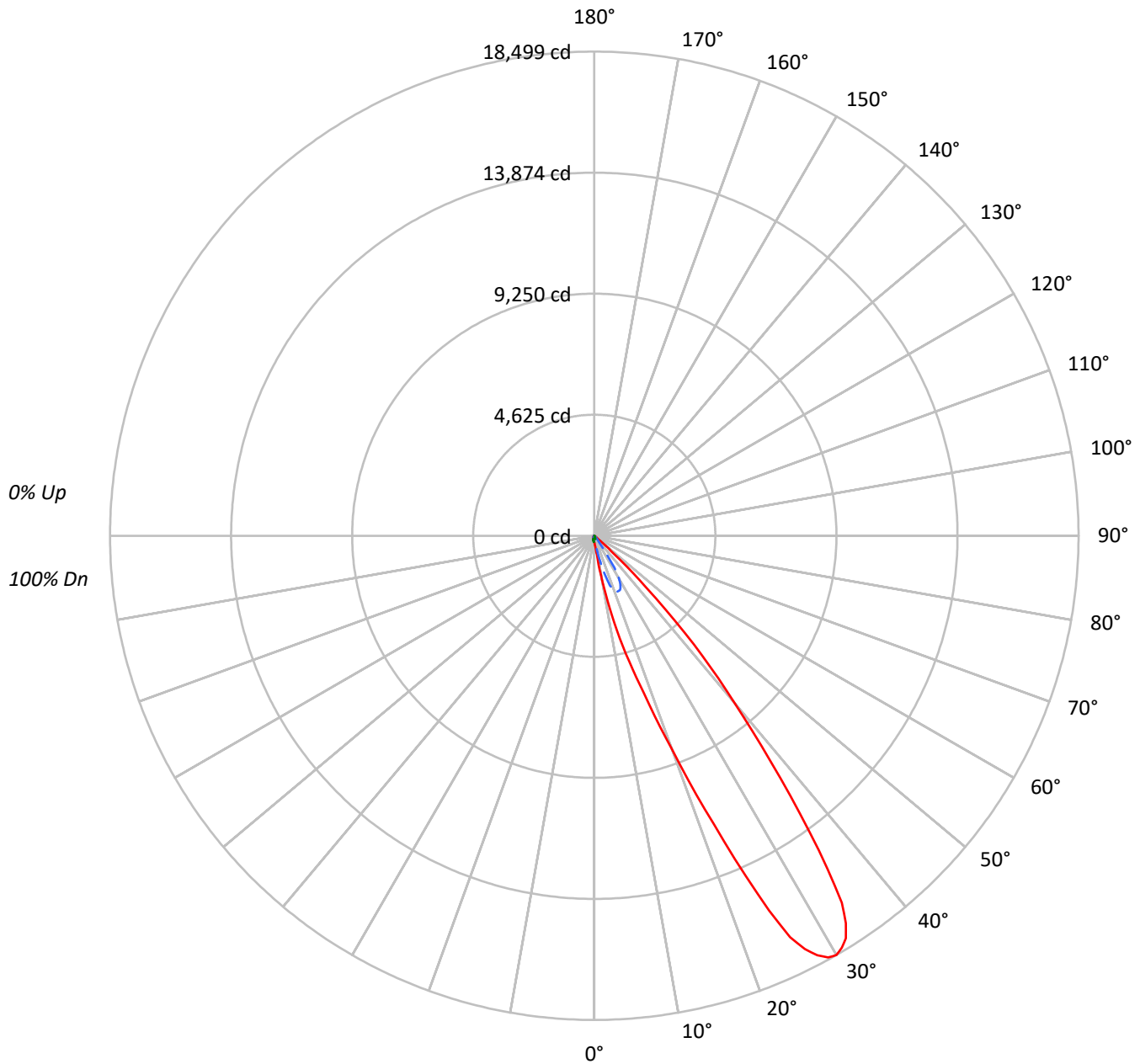
Lumens per Lamp: N/A
Luminaire Lumens: 2844.8 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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

TEST NUMBER: P1212372

CATALOG NUMBER: LDSQA4A35935D010TE LAR15SP 4LSQA1H 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	113	109	106	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°	23754	23754	23754
5°	39559	22425	19138
10°	168714	19644	16605
15°	467034	15616	14733
20°	895793	11052	13175
25°	1688983	7375	11619
30°	2069315	4922	10179
35°	1837773	3300	8681
40°	1047408	2226	7246
45°	382059	1822	6028
50°	42033	1326	5094
55°	6182	996	4222
60°	1434	1143	3410
65°	1032	1352	2338
70°	821	1671	2096
75°	1085	2208	1684
80°	0	3292	1618
85°	0	5002	1667

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	1.1
10°-20°	308.2	10.8
20°-30°	1012.5	35.6
30°-40°	1110.3	39.0
40°-50°	346.8	12.2
50°-60°	19.0	0.7
60°-70°	7.7	0.3
70°-80°	5.8	0.2
80°-90°	3.6	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°	1351.6	47.5
0°-40°	2461.9	86.5
0°-60°	2827.7	99.4
0°-90°	2844.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2844.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	245	245	245	245	245	
5°	407	326	231	204	197	76
15°	4657	1496	156	140	147	1463
25°	15801	2298	69	85	109	7044
35°	15540	452	28	48	73	9085
45°	2789	47	13	28	44	2560
55°	37	9	6	16	25	57
65°	4	4	6	12	10	4
75°	3	4	6	9	4	2
85°	0	4	4	4	2	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°	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2
2.5°	302.5	305.5	307.0	299.6	301.1	298.1	301.1	295.1	284.8	287.8	278.9
5°	406.8	400.9	399.5	387.6	384.7	378.8	378.8	365.7	346.6	343.6	326.0
7.5°	719.6	688.7	662.3	622.7	584.4	555.0	543.3	496.3	444.9	425.9	384.7
10°	1715.1	1709.4	1643.3	1518.5	1374.6	1270.3	1210.0	1027.9	797.3	656.5	509.5
12.5°	3122.1	3092.6	2998.7	2769.6	2521.4	2365.7	2243.9	1876.8	1534.6	1260.0	903.1
15°	4656.7	4537.6	4399.6	4044.2	3696.3	3493.6	3320.3	2879.8	2349.6	1954.6	1496.4
17.5°	6295.5	6348.3	6013.5	5401.2	4783.0	4465.8	4172.1	3495.1	2915.0	2503.8	1988.4
20°	8689.2	8577.5	7988.8	6973.9	6062.0	5531.8	5114.7	4138.3	3263.0	2750.5	2263.0
22.5°	11924.3	11568.8	10420.5	8703.8	7257.4	6521.7	5929.8	4614.1	3555.3	2876.7	2307.0
25°	15801.1	15472.2	13345.8	10367.8	8228.0	7275.0	6470.3	4916.6	3672.8	2897.4	2298.2
26°	17067.0	16577.9	14425.1	10959.4	8526.2	7465.9	6603.9	4975.3	3675.6	2881.2	2260.1
27°	17721.9	17338.6	15318.0	11439.7	8730.2	7586.2	6678.8	4990.1	3646.4	2844.5	2201.3
28°	18153.7	17795.4	15883.3	11754.0	8834.5	7633.3	6700.7	4957.7	3580.3	2779.9	2108.8
29°	18421.0	18043.6	16159.4	11896.4	8841.9	7612.8	6659.6	4872.5	3490.6	2702.1	2001.6
30°	18498.8	18090.5	16166.8	11837.7	8733.2	7502.6	6543.7	4734.5	3381.9	2603.7	1882.6
31°	18360.8	17939.2	15901.0	11570.4	8510.0	7288.2	6361.6	4552.4	3246.9	2499.4	1699.0
32°	18131.6	17572.1	15344.4	11126.8	8204.5	7029.8	6134.0	4354.1	3103.0	2367.2	1440.7
33°	17644.1	16968.6	14492.6	10570.3	7837.5	6733.1	5868.2	4133.8	2966.4	2139.6	1070.5
34°	16911.3	16058.1	13448.5	9922.7	7421.8	6363.0	5562.7	3929.8	2823.9	1838.6	732.8
35°	15539.7	14745.3	12295.8	9232.5	6973.9	6004.7	5226.4	3662.5	2630.1	1474.5	452.3
36°	14005.1	13420.7	11178.3	8530.6	6515.8	5633.3	4879.8	3465.7	2343.8	1085.2	307.0
37°	12436.7	11918.3	10123.9	7840.3	6056.1	5222.0	4527.4	3242.4	2003.0	724.0	246.7
38°	10943.3	10532.1	9122.3	7162.0	5578.9	4791.8	4157.3	3004.6	1635.9	465.5	202.6
39°	9571.7	9263.3	8141.4	6505.5	5100.1	4370.2	3801.9	2705.0	1248.2	331.9	168.8
40°	8282.4	8065.0	7195.8	5857.8	4624.3	3956.2	3480.4	2342.2	866.4	262.8	136.5
42.5°	5633.3	5578.9	5063.4	4216.1	3434.8	3044.2	2752.0	1317.3	333.4	158.6	76.4
45°	2788.7	2826.9	2621.3	2411.3	2248.3	2129.3	1734.3	549.3	185.0	86.6	47.0
47.5°	986.8	988.3	850.3	757.8	724.0	721.0	524.3	193.8	98.4	52.9	33.8
50°	278.9	301.1	283.5	289.4	226.2	192.4	157.2	94.0	49.9	33.8	22.0
51°	171.8	185.0	173.3	179.1	155.7	139.6	117.5	70.4	39.7	27.9	20.5
52°	110.1	117.5	111.5	113.2	104.2	91.0	79.2	51.4	32.3	23.5	17.6
53°	74.9	79.2	74.9	74.9	69.0	64.7	55.8	38.3	26.4	19.1	13.3
54°	51.4	52.9	52.9	52.9	48.5	45.5	39.7	29.4	22.0	17.6	11.7
55°	36.6	38.3	36.6	36.6	35.2	32.3	29.4	22.0	17.6	14.7	8.8
57.5°	16.1	16.1	16.1	17.6	16.1	16.1	14.7	13.3	11.7	8.8	5.9
60°	7.4	7.4	7.4	7.4	8.8	8.8	8.8	8.8	7.4	5.9	5.9
61°	5.9	5.9	5.9	5.9	5.9	7.4	7.4	7.4	5.9	5.9	4.5
62°	4.5	4.5	4.5	4.5	5.9	5.9	5.9	5.9	5.9	4.5	4.5
63°	4.5	4.5	4.5	4.5	4.5	4.5	5.9	5.9	4.5	4.5	4.5
64°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
65°	4.5	2.9	2.9	2.9	2.9	4.5	4.5	4.5	4.5	4.5	4.5
66°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.5
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.5
77.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	4.5
80°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	4.5
82.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	4.5
85°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	4.5
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	2.9	2.9	4.5
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°	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2
2.5°	273.2	271.7	264.4	257.0	258.5	255.6	252.6	248.2	245.2	237.8	237.8
5°	311.3	303.9	287.8	273.2	271.7	265.8	257.0	248.2	240.8	230.6	227.6
7.5°	355.4	334.8	308.4	284.8	280.5	271.7	255.6	243.7	230.6	217.3	212.9
10°	418.5	370.0	324.6	289.4	280.5	267.3	246.7	230.6	215.9	199.7	193.8
12.5°	643.2	456.8	345.1	289.4	273.2	257.0	232.1	212.9	195.3	177.7	171.8
15°	1071.9	729.8	437.6	289.4	259.9	240.8	209.9	190.9	171.8	155.7	149.8
17.5°	1480.2	1038.2	609.4	326.0	261.3	221.8	183.6	163.1	146.9	130.7	126.3
20°	1716.7	1210.0	722.6	362.7	258.5	199.7	157.2	135.0	118.9	107.2	102.8
22.5°	1747.5	1217.4	697.6	324.6	217.3	165.9	130.7	110.1	96.9	86.6	83.7
25°	1665.2	1075.0	558.1	230.6	161.5	135.0	102.8	88.2	77.8	69.0	67.5
26°	1602.1	989.8	486.0	190.9	142.4	120.4	92.5	79.2	70.4	63.2	61.6
27°	1512.6	898.8	415.6	158.6	126.3	108.7	82.3	72.0	64.7	57.3	57.3
28°	1411.2	800.4	334.8	133.7	113.2	96.9	74.9	64.7	57.3	52.9	52.9
29°	1289.3	657.9	245.2	116.0	99.9	85.1	66.1	57.3	51.4	48.5	48.5
30°	1108.7	477.3	168.8	101.3	86.6	74.9	58.8	51.4	47.0	44.0	44.0
31°	866.4	293.7	132.2	88.2	76.4	66.1	52.9	45.5	42.6	39.7	41.1
32°	590.4	183.6	113.2	76.4	67.5	57.3	47.0	41.1	38.3	36.6	36.6
33°	336.2	152.7	98.4	66.1	57.3	49.9	41.1	36.6	35.2	33.8	33.8
34°	223.2	130.7	85.1	55.8	47.0	42.6	35.2	32.3	30.9	30.9	30.9
35°	188.0	113.2	69.0	47.0	41.1	36.6	30.9	29.4	27.9	27.9	29.4
36°	158.6	94.0	55.8	39.7	35.2	32.3	27.9	26.4	25.0	25.0	26.4
37°	133.7	74.9	47.0	33.8	29.4	27.9	25.0	23.5	23.5	23.5	25.0
38°	108.7	60.2	39.7	29.4	26.4	23.5	22.0	20.5	20.5	22.0	23.5
39°	85.1	48.5	32.3	25.0	22.0	20.5	19.1	19.1	19.1	19.1	20.5
40°	67.5	41.1	27.9	22.0	19.1	19.1	17.6	16.1	17.6	17.6	20.5
42.5°	42.6	29.4	20.5	16.1	14.7	14.7	13.3	13.3	13.3	14.7	16.1
45°	30.9	23.5	16.1	13.3	11.7	10.2	10.2	10.2	11.7	13.3	14.7
47.5°	23.5	16.1	11.7	8.8	7.4	7.4	7.4	7.4	8.8	10.2	11.7
50°	16.1	10.2	7.4	5.9	5.9	5.9	5.9	5.9	7.4	8.8	10.2
51°	13.3	8.8	7.4	5.9	5.9	4.5	4.5	5.9	7.4	7.4	8.8
52°	10.2	7.4	5.9	4.5	4.5	4.5	4.5	5.9	5.9	7.4	8.8
53°	8.8	7.4	5.9	4.5	4.5	4.5	4.5	4.5	5.9	7.4	8.8
54°	7.4	5.9	4.5	4.5	4.5	4.5	4.5	4.5	5.9	7.4	8.8
55°	5.9	5.9	4.5	4.5	4.5	4.5	4.5	4.5	5.9	5.9	7.4
57.5°	5.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.9	7.4
60°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.9	7.4
61°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.9	7.4
62°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.9	7.4
63°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.9	5.9	7.4
64°	4.5	4.5	4.5	4.5	5.9	5.9	4.5	4.5	5.9	5.9	7.4
65°	4.5	4.5	5.9	5.9	5.9	5.9	4.5	4.5	5.9	5.9	7.4
66°	4.5	5.9	5.9	5.9	5.9	5.9	4.5	4.5	5.9	5.9	7.4



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CATALOG NUMBER: LDSQA4A35935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	4.5	5.9	5.9	5.9	5.9	5.9	5.9	4.5	5.9	5.9	5.9
75°	4.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
77.5°	4.5	5.9	5.9	5.9	5.9	5.9	5.9	4.5	4.5	5.9	5.9
80°	4.5	5.9	5.9	5.9	5.9	5.9	5.9	4.5	4.5	5.9	5.9
82.5°	4.5	5.9	5.9	5.9	5.9	5.9	5.9	4.5	4.5	4.5	5.9
85°	4.5	4.5	5.9	5.9	5.9	5.9	5.9	4.5	4.5	4.5	4.5
87.5°	4.5	4.5	5.9	5.9	5.9	5.9	4.5	4.5	4.5	4.5	4.5
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: P1212372

CATALOG NUMBER: LDSQA4A35935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2
2.5°	234.9	230.6	227.6	226.2	227.6	224.7	220.2	221.8	220.2	218.8	218.8
5°	223.2	215.9	212.9	211.4	211.4	209.9	204.0	205.6	204.0	202.6	202.6
7.5°	207.1	201.2	196.8	195.3	195.3	193.8	188.0	190.9	188.0	186.4	188.0
10°	188.0	182.1	180.7	177.7	177.7	176.2	171.8	173.3	171.8	171.8	171.8
12.5°	167.4	161.5	160.0	158.6	160.0	158.6	154.1	157.2	155.7	155.7	157.2
15°	145.3	141.0	141.0	139.6	141.0	139.6	138.1	139.6	139.6	139.6	142.4
17.5°	123.4	120.4	120.4	118.9	120.4	120.4	118.9	123.4	123.4	126.3	129.1
20°	101.3	98.4	99.9	99.9	102.8	102.8	102.8	107.2	108.7	111.5	116.0
22.5°	83.7	82.3	83.7	83.7	86.6	88.2	88.2	92.5	96.9	99.9	104.2
25°	67.5	67.5	70.4	70.4	72.0	74.9	76.4	82.3	85.1	88.2	92.5
26°	63.2	63.2	64.7	66.1	67.5	70.4	72.0	77.8	80.8	83.7	88.2
27°	57.3	57.3	60.2	61.6	63.2	66.1	69.0	73.4	76.4	80.8	83.7
28°	52.9	52.9	55.8	57.3	58.8	63.2	64.7	69.0	72.0	76.4	80.8
29°	48.5	49.9	52.9	52.9	55.8	58.8	60.2	66.1	69.0	72.0	76.4
30°	45.5	47.0	48.5	49.9	51.4	54.4	57.3	61.6	64.7	67.5	72.0
31°	42.6	44.0	45.5	47.0	48.5	51.4	54.4	58.8	61.6	64.7	69.0
32°	39.7	39.7	42.6	44.0	45.5	48.5	51.4	55.8	58.8	61.6	66.1
33°	36.6	38.3	39.7	41.1	42.6	45.5	48.5	51.4	54.4	58.8	63.2
34°	33.8	35.2	38.3	39.7	41.1	44.0	45.5	48.5	51.4	55.8	58.8
35°	30.9	33.8	35.2	36.6	38.3	41.1	42.6	47.0	48.5	52.9	55.8
36°	29.4	30.9	33.8	35.2	36.6	38.3	39.7	44.0	47.0	49.9	52.9
37°	26.4	29.4	30.9	32.3	33.8	36.6	38.3	41.1	44.0	47.0	49.9
38°	25.0	26.4	29.4	30.9	32.3	33.8	35.2	39.7	41.1	44.0	47.0
39°	23.5	25.0	27.9	29.4	29.4	32.3	33.8	36.6	38.3	41.1	45.5
40°	22.0	23.5	26.4	26.4	27.9	30.9	32.3	35.2	36.6	39.7	42.6
42.5°	19.1	20.5	22.0	23.5	25.0	26.4	27.9	30.9	32.3	33.8	36.6
45°	16.1	17.6	20.5	20.5	22.0	23.5	25.0	26.4	27.9	30.9	32.3
47.5°	13.3	16.1	17.6	19.1	19.1	20.5	22.0	23.5	25.0	26.4	27.9
50°	11.7	13.3	14.7	16.1	16.1	17.6	19.1	20.5	20.5	22.0	25.0
51°	11.7	13.3	14.7	14.7	16.1	17.6	17.6	19.1	20.5	20.5	22.0
52°	10.2	11.7	13.3	14.7	14.7	16.1	17.6	17.6	19.1	20.5	22.0
53°	10.2	11.7	13.3	13.3	14.7	16.1	16.1	17.6	17.6	19.1	20.5
54°	10.2	11.7	13.3	13.3	14.7	14.7	16.1	16.1	17.6	17.6	19.1
55°	8.8	10.2	11.7	13.3	13.3	14.7	14.7	16.1	16.1	17.6	17.6
57.5°	8.8	10.2	11.7	11.7	11.7	13.3	13.3	14.7	14.7	14.7	16.1
60°	8.8	10.2	10.2	11.7	11.7	13.3	13.3	13.3	13.3	14.7	14.7
61°	8.8	8.8	10.2	11.7	11.7	11.7	13.3	13.3	13.3	13.3	14.7
62°	8.8	8.8	10.2	10.2	11.7	11.7	11.7	13.3	13.3	13.3	13.3
63°	7.4	8.8	10.2	10.2	11.7	11.7	11.7	11.7	11.7	13.3	13.3
64°	7.4	8.8	10.2	10.2	10.2	11.7	11.7	11.7	11.7	11.7	11.7
65°	7.4	8.8	10.2	10.2	10.2	11.7	11.7	11.7	11.7	11.7	11.7
66°	7.4	8.8	10.2	10.2	10.2	11.7	11.7	11.7	11.7	11.7	11.7



TEST NUMBER: P1212372

CATALOG NUMBER: LDSQA4A35935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	7.4	7.4	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
75°	7.4	7.4	7.4	8.8	8.8	8.8	8.8	8.8	8.8	7.4	7.4
77.5°	5.9	5.9	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	5.9
80°	5.9	5.9	7.4	7.4	7.4	7.4	7.4	7.4	5.9	5.9	5.9
82.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	4.5	4.5
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	4.5	4.5	2.9
87.5°	4.5	5.9	5.9	5.9	5.9	5.9	4.5	4.5	4.5	2.9	2.9
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: P1212372

CATALOG NUMBER: LDSQA4A35935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2
2.5°	220.2	215.9	214.5	214.5	215.9	214.5	215.9	214.5
5°	202.6	198.3	198.3	196.8	198.3	196.8	198.3	196.8
7.5°	188.0	183.6	183.6	183.6	183.6	183.6	185.0	183.6
10°	173.3	168.8	168.8	167.4	168.8	168.8	170.3	168.8
12.5°	158.6	155.7	155.7	154.1	157.2	155.7	158.6	157.2
15°	145.3	142.4	142.4	143.9	145.3	145.3	146.9	146.9
17.5°	132.2	132.2	132.2	133.7	135.0	136.5	138.1	136.5
20°	120.4	120.4	121.9	123.4	124.8	126.3	127.8	127.8
22.5°	108.7	108.7	110.1	113.2	116.0	117.5	118.9	118.9
25°	96.9	98.4	99.9	101.3	105.8	107.2	108.7	108.7
26°	92.5	94.0	96.9	98.4	101.3	102.8	105.8	105.8
27°	89.6	91.0	92.5	94.0	98.4	99.9	102.8	101.3
28°	85.1	86.6	88.2	91.0	94.0	96.9	98.4	98.4
29°	80.8	83.7	85.1	86.6	91.0	92.5	94.0	94.0
30°	77.8	79.2	80.8	83.7	86.6	89.6	91.0	91.0
31°	73.4	76.4	77.8	79.2	83.7	85.1	88.2	88.2
32°	70.4	72.0	73.4	76.4	79.2	82.3	83.7	83.7
33°	66.1	69.0	70.4	72.0	76.4	79.2	80.8	79.2
34°	63.2	66.1	66.1	69.0	72.0	74.9	76.4	76.4
35°	60.2	61.6	63.2	66.1	69.0	72.0	73.4	73.4
36°	57.3	58.8	60.2	63.2	66.1	69.0	70.4	70.4
37°	54.4	55.8	57.3	58.8	63.2	66.1	67.5	67.5
38°	51.4	52.9	54.4	57.3	60.2	61.6	64.7	64.7
39°	48.5	49.9	51.4	54.4	57.3	58.8	61.6	60.2
40°	45.5	48.5	48.5	51.4	54.4	55.8	58.8	57.3
42.5°	39.7	41.1	42.6	44.0	47.0	49.9	51.4	51.4
45°	35.2	36.6	38.3	39.7	41.1	42.6	45.5	44.0
47.5°	29.4	30.9	32.3	33.8	35.2	36.6	38.3	38.3
50°	26.4	26.4	27.9	27.9	30.9	32.3	33.8	33.8
51°	23.5	25.0	26.4	26.4	29.4	29.4	30.9	30.9
52°	23.5	23.5	25.0	25.0	26.4	27.9	29.4	29.4
53°	22.0	22.0	23.5	23.5	25.0	26.4	27.9	27.9
54°	20.5	20.5	22.0	22.0	23.5	25.0	26.4	26.4
55°	19.1	19.1	20.5	20.5	22.0	23.5	25.0	25.0
57.5°	16.1	17.6	17.6	19.1	19.1	20.5	20.5	22.0
60°	14.7	16.1	16.1	16.1	17.6	17.6	17.6	17.6
61°	14.7	14.7	14.7	16.1	16.1	14.7	16.1	14.7
62°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
63°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
64°	13.3	11.7	11.7	11.7	11.7	11.7	11.7	11.7
65°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	10.2
66°	11.7	11.7	10.2	11.7	10.2	10.2	10.2	10.2

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212372

CATALOG NUMBER: LDSQA4A35935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	7.4	7.4	7.4	7.4	7.4	5.9	5.9	5.9
75°	7.4	7.4	7.4	5.9	5.9	5.9	5.9	4.5
77.5°	5.9	5.9	5.9	5.9	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	2.9	2.9
82.5°	4.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	2.9	2.9	2.9	2.9	2.9	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



67.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.5	4.5
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.5	4.5

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





67.5°	4.5	5.9	5.9	5.9	5.9	5.9	5.9	4.5	5.9	5.9	7.4
70°	4.5	5.9	5.9	5.9	5.9	5.9	5.9	4.5	5.9	5.9	5.9

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



67.5°	7.4	8.8	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
70°	7.4	8.8	8.8	8.8	10.2	10.2	10.2	10.2	10.2	10.2	10.2

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report



67.5°	10.2	10.2	10.2	10.2	10.2	8.8	8.8	8.8
70°	8.8	8.8	8.8	8.8	8.8	7.4	7.4	7.4

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1121 Highway 74 South

Peachtree City, GA 30269

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(END OF REPORT)