

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: P1219447

Luminaire Tested: **LDSQA4A10950D010TE 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: P1219447
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: LDSQA4A10950D010TE 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

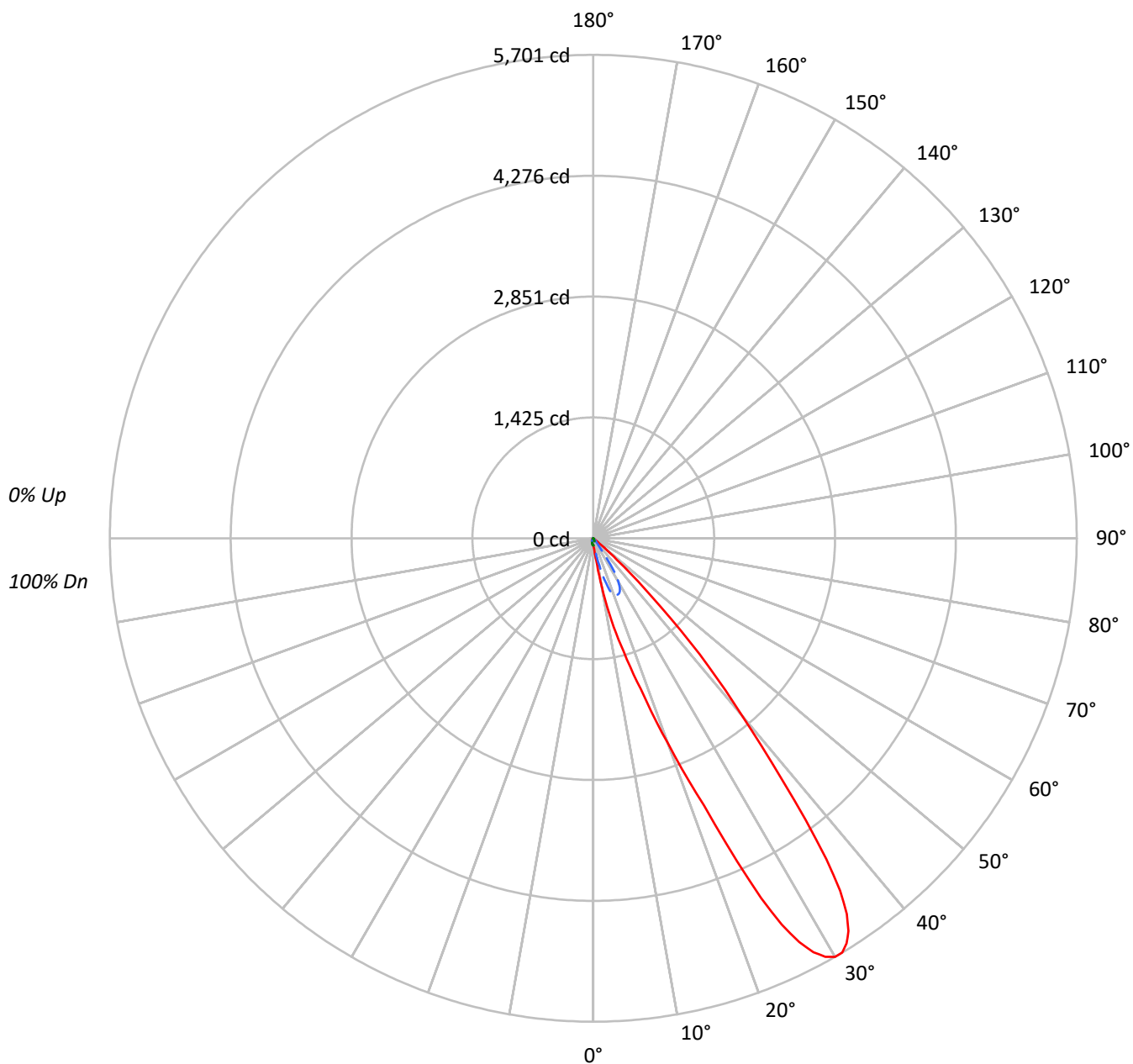
Lumens per Lamp: N/A
Luminaire Lumens: 895.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 2.26 / 0.62 / 1.11
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.4
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	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	85	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75		
4	93	84	77	72	91	82	76	71	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	57	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°	8176	8176	8176
5°	12992	7780	6720
10°	56936	6886	5715
15°	139096	5576	4985
20°	265381	4144	4557
25°	500139	2972	3976
30°	637704	2114	3501
35°	599878	1289	3004
40°	344141	885	2580
45°	132851	617	2178
50°	17663	452	1809
55°	2685	422	1503
60°	775	388	1240
65°	458	458	917
70°	283	566	708
75°	374	561	561
80°	0	837	558
85°	0	1667	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	1.2
10°-20°	95.9	10.7
20°-30°	305.9	34.2
30°-40°	354.4	39.6
40°-50°	115.3	12.9
50°-60°	7.3	0.8
60°-70°	2.7	0.3
70°-80°	1.9	0.2
80°-90°	1.1	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°	412.3	46.1
0°-40°	766.8	85.7
0°-60°	889.3	99.4
0°-90°	895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	134	112	80	70	69	26
15°	1387	500	56	48	50	440
25°	4679	719	28	29	37	2102
35°	5072	171	11	17	25	2919
45°	970	21	4	10	16	866
55°	16	4	2	6	9	25
65°	2	2	2	4	4	2
75°	1	2	2	2	2	1
85°	0	1	2	2	0	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°	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
2.5°	102.9	103.8	103.8	102.3	102.3	100.9	99.8	99.3	98.9	97.3	96.8
5°	133.6	134.6	135.1	131.1	129.7	126.7	124.2	121.7	118.8	115.2	111.8
7.5°	257.8	236.9	240.4	210.6	205.2	192.3	181.8	165.5	153.5	141.5	132.2
10°	578.8	558.9	555.4	511.7	468.4	436.2	401.3	341.2	286.6	228.5	181.3
12.5°	991.5	962.2	945.8	859.9	809.2	761.5	708.3	614.5	509.7	420.3	326.9
15°	1386.9	1384.4	1325.9	1230.0	1133.6	1074.9	1006.4	890.2	766.0	629.9	499.7
17.5°	1864.3	1883.8	1783.4	1596.1	1443.6	1348.2	1253.8	1072.0	917.0	784.9	642.3
20°	2574.2	2522.5	2347.2	2054.1	1796.3	1652.7	1506.1	1238.4	1016.4	856.4	711.9
22.5°	3408.3	3368.6	3040.6	2551.8	2143.0	1941.4	1739.6	1391.4	1102.3	895.1	725.3
25°	4679.0	4515.5	3879.2	3085.9	2461.0	2175.3	1916.5	1490.7	1141.1	900.1	718.8
26°	5069.0	4954.1	4219.9	3297.9	2558.8	2239.8	1960.7	1511.1	1144.0	895.6	706.4
27°	5345.6	5258.1	4503.6	3453.9	2629.8	2284.6	1989.5	1519.5	1137.0	886.2	689.5
28°	5527.9	5457.9	4717.8	3566.7	2673.0	2308.4	2003.5	1517.6	1123.2	869.9	665.7
29°	5643.7	5576.1	4842.9	3630.8	2688.4	2312.4	1999.9	1502.7	1100.8	845.5	631.4
30°	5700.8	5627.2	4885.1	3637.7	2671.6	2289.6	1973.6	1469.9	1070.1	816.2	593.6
31°	5701.3	5619.8	4849.8	3584.2	2621.4	2240.9	1926.9	1415.2	1029.8	781.4	543.0
32°	5635.2	5551.3	4732.1	3475.3	2542.9	2179.7	1864.3	1359.6	987.6	742.7	470.0
33°	5524.5	5425.1	4528.0	3324.3	2442.5	2096.3	1789.3	1297.5	945.4	680.6	374.1
34°	5345.6	5210.0	4242.8	3141.0	2321.4	1999.0	1703.4	1230.4	902.6	594.2	267.3
35°	5072.4	4881.1	3913.0	2938.3	2191.7	1893.6	1606.5	1160.4	850.4	487.3	171.4
36°	4677.0	4430.1	3569.7	2728.6	2058.1	1782.9	1508.1	1092.8	767.9	369.6	112.2
37°	4160.8	3943.3	3241.4	2517.5	1919.4	1664.6	1418.2	1024.8	666.6	258.3	91.4
38°	3630.8	3470.4	2920.4	2308.0	1775.9	1537.0	1308.9	953.8	555.9	169.9	76.5
39°	3153.0	3045.6	2606.4	2100.3	1627.9	1425.2	1199.6	863.4	437.6	120.7	64.6
40°	2721.3	2647.2	2303.0	1888.6	1479.8	1290.1	1096.9	752.5	315.4	96.4	54.2
42.5°	1855.9	1819.2	1611.0	1359.2	1094.8	986.0	863.8	452.5	125.2	61.2	32.8
45°	969.7	953.8	878.3	795.8	713.9	685.6	555.4	203.2	70.5	35.8	20.9
47.5°	377.5	378.6	312.9	267.3	253.9	236.0	178.9	73.0	39.7	21.8	13.9
50°	117.2	126.2	116.3	109.8	83.9	70.0	58.1	36.3	21.3	13.4	8.9
51°	72.1	76.5	72.1	72.1	59.1	51.7	44.2	27.8	16.8	10.9	7.9
52°	46.7	49.2	46.7	43.7	40.8	36.7	31.8	20.9	13.4	8.9	6.4
53°	31.8	33.3	31.8	29.8	27.4	25.4	22.4	15.4	10.9	7.5	5.5
54°	22.4	23.3	22.4	20.9	19.3	17.9	16.4	12.0	8.9	6.4	5.0
55°	15.9	16.8	16.4	15.4	13.9	13.4	12.4	9.5	7.5	5.5	4.0
57.5°	7.5	7.9	7.9	7.5	7.5	7.0	6.4	5.9	4.5	3.4	3.0
60°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	2.5	2.5
61°	3.0	3.0	3.0	3.0	3.0	3.0	3.4	3.0	2.5	2.5	2.0
62°	2.5	2.5	2.5	2.5	2.5	3.0	3.0	2.5	2.5	2.0	2.0
63°	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.0	2.0	2.0
64°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5
65°	2.0	2.0	1.5	1.5	1.5	2.0	1.5	2.0	1.5	1.5	1.5
66°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
77.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5
80°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0
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°	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
2.5°	93.9	91.4	90.4	89.4	88.9	87.9	86.4	85.0	84.4	82.5	80.5
5°	105.8	101.3	97.9	94.4	93.4	90.9	87.9	84.4	83.0	80.0	77.5
7.5°	119.7	110.8	104.3	98.4	95.9	92.9	87.5	83.0	80.0	75.5	72.5
10°	143.1	122.2	109.8	99.3	95.4	91.4	84.4	78.5	74.5	70.0	66.6
12.5°	226.5	158.5	119.2	99.8	94.4	88.4	80.0	73.0	68.0	63.1	60.1
15°	357.1	241.4	154.4	104.8	92.4	83.4	73.5	65.5	60.6	55.6	52.6
17.5°	476.8	324.9	201.7	116.7	93.4	78.9	65.5	57.6	52.2	47.7	45.7
20°	534.6	364.1	224.5	119.2	87.5	70.5	56.7	49.2	44.2	40.2	38.3
22.5°	540.0	361.6	210.6	101.8	72.5	59.6	47.7	40.8	36.7	33.8	31.8
25°	514.2	320.9	168.9	75.0	56.7	49.7	39.2	33.3	30.3	27.8	26.3
26°	494.3	297.5	148.5	65.1	51.7	45.2	35.8	30.8	27.8	25.8	24.3
27°	467.0	270.2	124.7	56.2	47.7	40.8	32.8	28.3	25.8	24.3	22.9
28°	434.2	243.4	103.4	49.7	43.3	36.7	30.3	25.8	23.8	22.4	20.9
29°	398.9	208.1	81.0	44.7	38.8	33.3	27.4	23.3	21.3	20.4	19.3
30°	349.2	161.9	62.1	40.2	34.7	29.8	24.9	21.3	19.9	18.9	17.9
31°	279.1	111.3	50.1	35.8	31.3	26.8	22.4	19.3	17.9	16.8	16.4
32°	200.2	68.5	43.7	31.8	27.8	24.3	19.3	17.4	15.9	15.4	14.9
33°	123.2	56.2	38.8	28.3	24.3	21.3	17.4	15.4	14.5	13.9	13.4
34°	81.0	48.7	34.3	24.3	21.3	18.4	14.9	13.4	12.9	12.4	12.4
35°	68.5	43.3	29.8	20.9	17.9	15.9	12.9	12.0	11.4	10.9	11.4
36°	59.1	37.8	24.9	17.9	15.4	13.4	11.4	10.4	10.0	10.0	10.4
37°	52.2	31.8	20.9	14.9	13.4	12.0	10.0	9.5	8.9	8.9	9.5
38°	44.2	25.8	17.4	12.9	11.4	10.0	8.9	8.4	8.4	8.4	8.9
39°	36.3	21.8	14.9	10.9	10.0	8.9	7.9	7.5	7.5	7.9	7.9
40°	29.8	18.4	12.4	9.5	8.4	7.9	7.0	7.0	7.0	7.0	7.5
42.5°	19.3	12.4	8.9	7.0	6.4	5.9	5.5	5.5	5.5	5.5	5.9
45°	12.9	8.9	7.0	5.5	5.0	4.5	4.5	4.0	4.5	4.5	5.0
47.5°	8.9	6.4	5.0	4.0	3.4	3.0	3.0	3.0	3.4	4.0	4.0
50°	6.4	4.5	3.4	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.4
51°	5.5	4.0	3.0	2.5	2.5	2.0	2.0	2.0	2.5	3.0	3.4
52°	4.5	3.4	2.5	2.0	2.0	2.0	2.0	2.0	2.5	2.5	3.0
53°	4.0	3.0	2.5	2.0	2.0	2.0	2.0	2.0	2.5	2.5	3.0
54°	3.4	2.5	2.0	2.0	2.0	1.5	1.5	2.0	2.0	2.5	3.0
55°	3.0	2.5	2.0	2.0	1.5	1.5	1.5	1.5	2.0	2.5	2.5
57.5°	2.5	2.0	2.0	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.5
60°	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.5
61°	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.5
62°	2.0	1.5	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0	2.5
63°	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0	2.0
64°	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	2.0	2.0	2.5
65°	1.5	2.0	2.0	2.0	2.0	2.0	1.5	1.5	2.0	2.0	2.5
66°	1.5	2.0	2.0	2.0	2.0	2.0	2.0	1.5	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	1.5	1.5	2.0	2.0	2.0	2.0	2.0	1.5	1.5	2.0	2.0
75°	1.5	1.5	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	2.0
77.5°	1.5	1.5	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	2.0
80°	1.5	1.5	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	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	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°	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
2.5°	79.5	79.5	78.9	78.0	78.9	78.0	77.0	76.5	76.0	75.5	74.5
5°	75.5	75.0	74.0	73.5	73.5	72.5	71.6	70.5	70.0	69.6	68.5
7.5°	70.5	70.0	68.5	68.0	68.0	67.1	65.5	65.1	64.6	64.1	63.1
10°	64.6	64.1	62.6	62.1	62.1	61.2	60.1	59.1	58.7	58.1	57.1
12.5°	57.6	57.1	56.2	55.6	55.6	54.6	53.7	53.1	53.1	52.6	52.2
15°	50.6	50.1	49.2	49.2	49.2	48.2	47.7	47.2	47.7	47.7	47.2
17.5°	43.7	43.3	42.2	42.2	42.2	42.2	41.7	41.7	42.2	42.7	42.7
20°	36.7	36.3	36.3	35.8	36.3	36.7	36.3	36.7	37.8	38.3	38.8
22.5°	30.3	30.3	30.3	30.3	30.8	31.3	31.3	32.2	33.3	33.8	34.7
25°	25.4	25.4	25.8	25.8	26.3	26.8	27.4	27.8	29.3	30.3	30.8
26°	23.3	23.8	23.8	24.3	24.9	25.4	25.8	26.3	27.8	28.8	29.3
27°	21.8	21.8	22.4	22.9	23.3	23.8	24.3	25.4	26.3	27.4	28.3
28°	20.4	20.4	20.9	21.3	21.8	22.4	22.9	23.8	24.9	26.3	26.8
29°	18.9	19.3	19.3	19.9	20.4	20.9	21.8	22.4	23.8	24.9	25.8
30°	17.4	17.9	18.4	18.4	18.9	19.3	20.4	21.3	22.4	23.8	24.3
31°	16.4	16.8	16.8	17.4	17.9	18.4	19.3	20.4	21.3	22.4	23.3
32°	14.9	15.9	15.9	15.9	16.4	17.4	18.4	18.9	20.4	21.3	21.8
33°	13.9	14.5	14.9	14.9	15.4	16.4	17.4	17.9	19.3	20.4	20.9
34°	12.9	13.4	13.9	13.9	14.5	15.4	16.4	16.8	18.4	18.9	19.9
35°	12.0	12.4	12.9	12.9	13.4	14.5	15.4	15.9	16.8	17.9	18.9
36°	10.9	11.4	12.0	12.4	12.9	13.9	14.5	15.4	15.9	16.8	17.9
37°	10.0	10.4	11.4	11.4	12.4	12.9	13.9	14.5	15.4	15.9	16.8
38°	8.9	10.0	10.4	10.9	11.4	12.4	12.9	13.4	14.5	15.4	15.9
39°	8.4	9.5	10.0	10.4	10.9	11.4	12.0	12.9	13.4	14.5	14.9
40°	7.9	8.4	9.5	9.5	10.4	10.9	11.4	12.0	12.9	13.4	14.5
42.5°	6.4	7.5	7.9	8.4	8.9	9.5	10.0	10.4	10.9	12.0	12.4
45°	5.5	6.4	7.0	7.0	7.5	7.9	8.4	8.9	10.0	10.4	10.9
47.5°	4.5	5.5	5.9	6.4	6.4	7.0	7.5	7.9	8.4	8.9	9.5
50°	4.0	4.5	5.0	5.5	5.9	5.9	6.4	7.0	7.5	7.9	7.9
51°	4.0	4.5	5.0	5.0	5.5	5.9	6.4	6.4	7.0	7.5	7.5
52°	3.4	4.0	4.5	5.0	5.5	5.5	5.9	6.4	6.4	7.0	7.5
53°	3.4	4.0	4.5	4.5	5.0	5.5	5.5	5.9	6.4	6.4	7.0
54°	3.0	4.0	4.5	4.5	5.0	5.0	5.5	5.9	5.9	5.9	6.4
55°	3.0	3.4	4.0	4.5	4.5	5.0	5.0	5.5	5.5	5.9	5.9
57.5°	3.0	3.4	4.0	4.0	4.5	4.5	5.0	5.0	5.0	5.0	5.5
60°	2.5	3.0	3.4	4.0	4.0	4.5	4.5	4.5	4.5	4.5	5.0
61°	2.5	3.0	3.4	3.4	4.0	4.0	4.5	4.5	4.5	4.5	4.5
62°	2.5	3.0	3.4	3.4	4.0	4.0	4.0	4.5	4.5	4.5	4.5
63°	2.5	3.0	3.4	3.4	4.0	4.0	4.0	4.0	4.0	4.0	4.5
64°	2.5	3.0	3.4	3.4	4.0	4.0	4.0	4.0	4.0	4.0	4.0
65°	2.5	3.0	3.4	3.4	3.4	4.0	4.0	4.0	4.0	4.0	4.0
66°	2.5	3.0	3.4	3.4	3.4	3.4	4.0	4.0	4.0	4.0	3.4

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219447

CATALOG NUMBER: LDSQA4A10950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	2.0	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.5
75°	2.0	2.5	2.5	2.5	3.0	3.0	3.0	2.5	2.5	2.5	2.5
77.5°	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0
80°	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.0	2.0	2.0	1.5
82.5°	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5
85°	1.5	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.0
87.5°	1.5	1.5	1.5	2.0	2.0	2.0	1.5	1.5	1.0	1.0	1.0
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: P1219447

CATALOG NUMBER: LDSQA4A10950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
2.5°	75.5	76.0	75.5	75.5	74.5	75.0	74.0	75.5
5°	69.1	69.6	69.1	69.1	68.0	68.0	67.6	69.1
7.5°	63.5	64.1	63.1	63.1	62.1	62.6	62.1	63.1
10°	58.1	58.1	58.1	57.6	57.1	57.6	57.1	58.1
12.5°	52.6	53.1	53.1	53.1	52.6	52.6	52.2	53.7
15°	48.2	48.7	49.2	49.2	48.7	49.2	48.7	49.7
17.5°	44.2	45.2	45.2	45.7	45.7	46.2	46.2	47.2
20°	40.2	41.7	41.7	42.2	42.2	43.3	43.3	44.2
22.5°	36.3	37.8	38.3	38.3	38.8	39.7	39.7	40.8
25°	32.8	34.3	34.7	34.7	35.3	36.3	36.3	37.2
26°	31.3	32.8	33.3	33.8	34.3	35.3	35.3	36.3
27°	29.8	31.3	31.8	32.2	32.8	33.8	33.8	34.7
28°	28.8	30.3	30.8	31.3	31.8	32.8	32.8	33.3
29°	27.4	28.8	29.3	29.8	30.3	31.3	31.3	32.2
30°	26.3	27.4	27.8	28.3	28.8	30.3	30.3	31.3
31°	24.9	26.3	26.8	27.4	27.8	28.8	28.8	30.3
32°	23.8	24.9	25.4	25.8	26.8	27.4	27.8	28.8
33°	22.4	23.8	24.3	24.9	25.4	26.3	26.8	27.8
34°	21.3	22.4	23.3	23.8	24.3	25.4	25.8	26.8
35°	20.4	21.3	21.8	22.4	23.3	24.3	24.3	25.4
36°	19.3	20.4	20.9	21.3	22.4	23.3	23.3	24.3
37°	18.4	19.3	19.9	20.4	21.3	22.4	22.4	23.3
38°	17.4	18.4	18.9	19.3	20.4	21.3	21.8	22.9
39°	16.4	17.9	18.4	18.9	19.3	20.4	20.9	21.3
40°	15.9	16.8	17.4	17.9	18.4	19.3	19.9	20.4
42.5°	13.4	14.9	15.4	15.9	16.4	16.8	17.4	17.9
45°	12.0	12.9	12.9	13.4	13.9	14.9	14.9	15.9
47.5°	10.4	10.9	11.4	11.4	12.0	12.9	12.9	13.4
50°	8.9	9.5	10.0	10.0	10.4	10.9	11.4	12.0
51°	8.4	8.9	8.9	9.5	10.0	10.4	10.9	11.4
52°	7.9	8.4	8.4	8.9	9.5	10.0	10.0	10.4
53°	7.5	7.9	7.9	8.4	8.4	9.5	9.5	10.0
54°	7.0	7.5	7.5	7.9	7.9	8.9	8.9	9.5
55°	6.4	7.0	7.5	7.5	7.5	7.9	8.4	8.9
57.5°	5.9	6.4	6.4	6.4	7.0	7.0	7.5	7.5
60°	5.0	5.5	5.5	5.5	5.9	5.9	5.9	6.4
61°	5.0	5.0	5.5	5.5	5.0	5.0	5.0	5.5
62°	4.5	5.0	5.0	4.5	4.5	4.5	4.5	5.0
63°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
64°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
65°	4.0	4.0	4.0	4.0	4.0	4.0	3.4	4.0
66°	3.4	4.0	4.0	3.4	3.4	3.4	3.4	3.4



TEST NUMBER: P1219447

CATALOG NUMBER: LDSQA4A10950D010TE LAR15SP 4LSQAL1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	2.5	2.5	2.5	2.5	2.5	2.0	2.0	2.0
75°	2.5	2.0	2.0	2.0	2.0	2.0	2.0	1.5
77.5°	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0
82.5°	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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



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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

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Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

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67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5

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67.5°	1.5	1.5	2.0	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0
70°	1.5	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	2.0	2.0

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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Scaled Data Report





67.5°	2.5	3.0	3.0	3.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4
70°	2.5	2.5	3.0	3.0	3.0	3.4	3.4	3.0	3.0	3.0	3.0

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Cooper Lighting Solutions Photometric Lab

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67.5°	3.4	3.4	3.4	3.4	3.0	3.0	3.0	3.0
70°	3.0	3.0	3.0	3.0	2.5	2.5	2.5	2.5

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(END OF REPORT)