

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: P1212330

Luminaire Tested: **LDSQA4A30940D010TE LAR15SP 4LSQA1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212330
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: LDSQA4A30940D010TE 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 / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

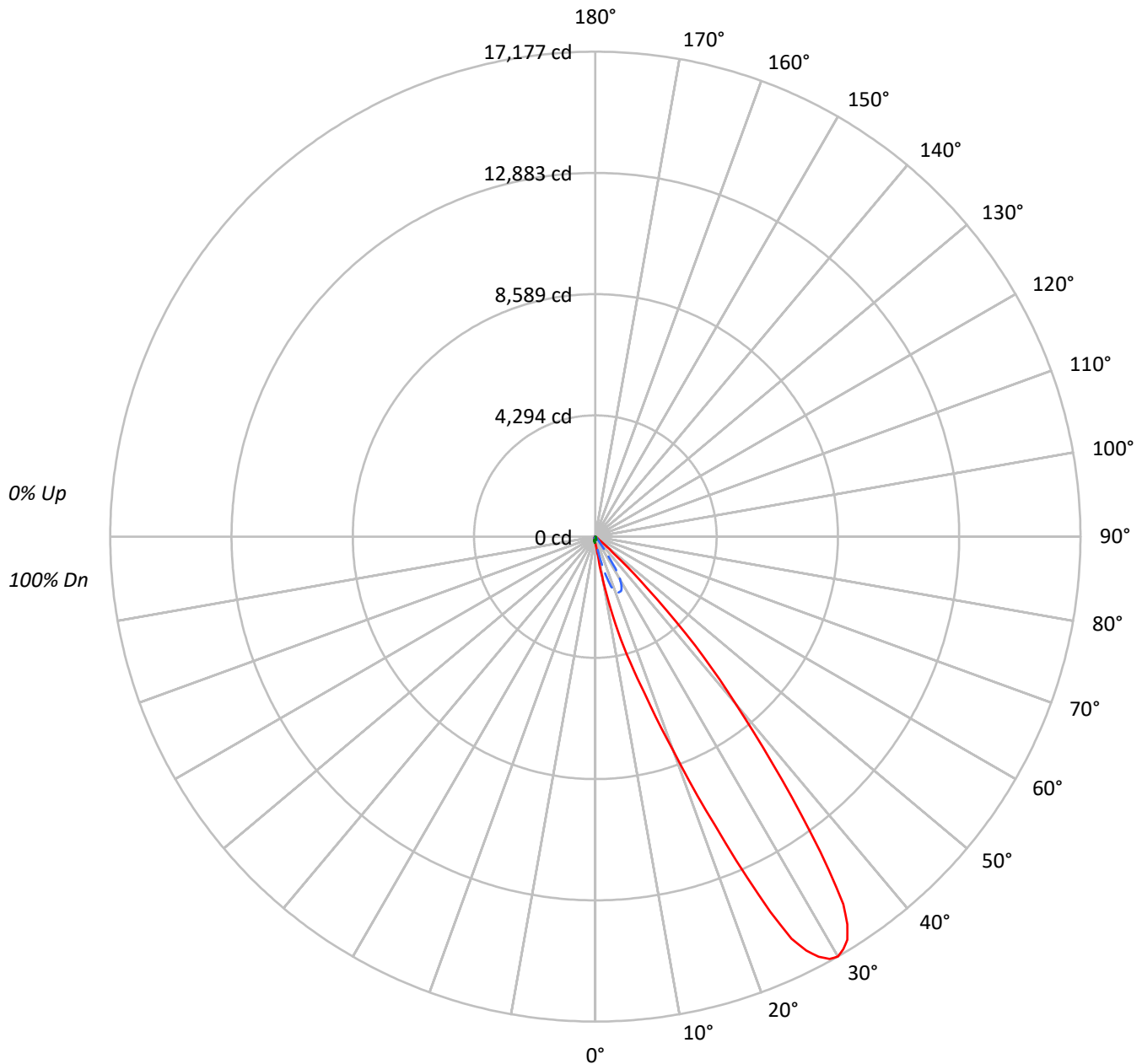
Lumens per Lamp: N/A
Luminaire Lumens: 2641.4 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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°	22059	22059	22059
5°	36739	20811	17767
10°	156664	18238	15424
15°	433646	14492	13680
20°	831772	10268	12227
25°	1568272	6852	10785
30°	1921422	4575	9452
35°	1706430	3063	8054
40°	972543	2074	6728
45°	354754	1685	5603
50°	39049	1221	4732
55°	5759	912	3918
60°	1318	1046	3178
65°	940	1238	2178
70°	765	1530	1926
75°	1011	2021	1535
80°	0	3013	1506
85°	0	4557	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	1.1
10°-20°	286.2	10.8
20°-30°	940.1	35.6
30°-40°	1031.0	39.0
40°-50°	322.0	12.2
50°-60°	17.6	0.7
60°-70°	7.1	0.3
70°-80°	5.4	0.2
80°-90°	3.3	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°	1255.0	47.5
0°-40°	2285.9	86.5
0°-60°	2625.6	99.4
0°-90°	2641.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2641.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	228	228	228	228	228	
5°	378	303	214	190	183	70
15°	4324	1389	144	130	136	1358
25°	14672	2134	64	79	101	6540
35°	14429	420	26	45	68	8436
45°	2589	44	12	26	41	2377
55°	34	8	5	15	23	53
65°	4	4	5	11	10	4
75°	3	4	5	8	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°	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7
2.5°	280.9	283.6	285.0	278.2	279.6	276.8	279.6	274.0	264.5	267.2	259.1
5°	377.8	372.2	370.9	360.0	357.3	351.8	351.8	339.6	321.8	319.1	302.7
7.5°	668.2	639.5	614.9	578.1	542.7	515.4	504.5	460.9	413.1	395.4	357.3
10°	1592.6	1587.2	1525.8	1409.9	1276.3	1179.5	1123.6	954.5	740.4	609.5	473.1
12.5°	2898.9	2871.7	2784.4	2571.7	2341.2	2196.7	2083.5	1742.6	1424.9	1169.9	838.6
15°	4323.8	4213.4	4085.2	3755.2	3432.0	3243.9	3083.0	2673.9	2181.7	1814.9	1389.4
17.5°	5845.6	5894.6	5583.8	5015.2	4441.1	4146.5	3873.9	3245.2	2706.7	2324.9	1846.3
20°	8068.2	7964.5	7417.8	6475.5	5628.8	5136.5	4749.3	3842.5	3029.9	2553.9	2101.2
22.5°	11072.1	10742.1	9675.7	8081.8	6738.6	6055.6	5506.0	4284.3	3301.2	2671.2	2142.1
25°	14671.8	14366.4	12392.0	9626.7	7640.0	6755.0	6007.9	4565.2	3410.2	2690.3	2134.0
26°	15847.2	15393.2	13394.2	10176.2	7916.8	6932.3	6131.9	4619.7	3412.9	2675.3	2098.5
27°	16455.4	16099.4	14223.2	10622.1	8106.3	7044.1	6201.4	4633.3	3385.7	2641.1	2043.9
28°	16856.2	16523.5	14748.2	10913.9	8203.1	7087.7	6221.9	4603.4	3324.3	2581.3	1958.1
29°	17104.5	16753.9	15004.6	11046.2	8210.0	7068.7	6183.7	4524.3	3241.2	2508.9	1858.5
30°	17176.7	16797.7	15011.4	10991.6	8109.1	6966.4	6076.0	4396.2	3140.3	2417.6	1748.1
31°	17048.5	16657.2	14764.6	10743.5	7901.8	6767.3	5907.0	4227.0	3014.8	2320.8	1577.6
32°	16835.8	16316.3	14247.8	10331.7	7618.1	6527.3	5695.5	4042.9	2881.2	2198.1	1337.7
33°	16383.1	15755.8	13456.9	9814.8	7277.3	6252.0	5448.7	3838.4	2754.4	1986.7	994.1
34°	15702.7	14910.5	12487.4	9213.6	6891.4	5908.3	5165.1	3648.9	2622.2	1707.2	680.4
35°	14429.1	13691.4	11417.1	8572.6	6475.5	5575.5	4852.9	3400.7	2442.2	1369.0	420.0
36°	13004.3	12461.5	10379.4	7920.8	6050.1	5230.5	4531.1	3218.0	2176.3	1007.6	285.0
37°	11547.9	11066.7	9400.4	7280.0	5623.3	4848.8	4203.8	3010.8	1859.9	672.2	229.1
38°	10161.2	9779.4	8470.4	6650.0	5180.1	4449.3	3860.2	2789.9	1518.9	432.2	188.1
39°	8887.7	8601.3	7559.6	6040.5	4735.6	4057.9	3530.2	2511.7	1159.0	308.2	156.8
40°	7690.4	7488.6	6681.5	5439.3	4293.9	3673.4	3231.6	2174.9	804.4	244.1	126.8
42.5°	5230.5	5180.1	4701.5	3914.8	3189.3	2826.7	2555.3	1223.1	309.5	147.2	70.9
45°	2589.4	2624.9	2433.9	2239.0	2087.6	1977.2	1610.4	510.0	171.8	80.5	43.6
47.5°	916.3	917.7	789.5	703.5	672.2	669.5	486.8	180.0	91.3	49.0	31.4
50°	259.1	279.6	263.2	268.6	210.0	178.7	145.9	87.2	46.3	31.4	20.5
51°	159.6	171.8	160.9	166.3	144.5	129.5	109.0	65.4	36.8	25.9	19.1
52°	102.3	109.0	103.6	105.0	96.8	84.5	73.7	47.7	29.9	21.8	16.4
53°	69.5	73.7	69.5	69.5	64.1	60.0	51.9	35.5	24.5	17.7	12.3
54°	47.7	49.0	49.0	49.0	45.0	42.3	36.8	27.2	20.5	16.4	11.0
55°	34.1	35.5	34.1	34.1	32.8	29.9	27.2	20.5	16.4	13.7	8.1
57.5°	15.0	15.0	15.0	16.4	15.0	15.0	13.7	12.3	11.0	8.1	5.4
60°	6.8	6.8	6.8	6.8	8.1	8.1	8.1	8.1	6.8	5.4	5.4
61°	5.4	5.4	5.4	5.4	5.4	6.8	6.8	6.8	5.4	5.4	4.1
62°	4.1	4.1	4.1	4.1	5.4	5.4	5.4	5.4	5.4	4.1	4.1
63°	4.1	4.1	4.1	4.1	4.1	4.1	5.4	5.4	4.1	4.1	4.1
64°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
65°	4.1	2.7	2.7	2.7	2.7	4.1	4.1	4.1	4.1	4.1	4.1
66°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.1	4.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.1
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.1
77.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.7	2.7	4.1
80°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.7	2.7	4.1
82.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.7	2.7	4.1
85°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.7	2.7	4.1
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.7	2.7	4.1
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°	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7
2.5°	253.6	252.2	245.4	238.7	240.0	237.3	234.5	230.4	227.7	220.9	220.9
5°	289.1	282.3	267.2	253.6	252.2	246.8	238.7	230.4	223.6	214.0	211.3
7.5°	330.0	310.9	286.3	264.5	260.5	252.2	237.3	226.3	214.0	201.8	197.7
10°	388.6	343.6	301.4	268.6	260.5	248.1	229.1	214.0	200.5	185.4	180.0
12.5°	597.2	424.1	320.5	268.6	253.6	238.7	215.5	197.7	181.4	165.0	159.6
15°	995.4	677.7	406.3	268.6	241.4	223.6	195.0	177.3	159.6	144.5	139.1
17.5°	1374.4	964.0	565.9	302.7	242.7	205.9	170.4	151.3	136.4	121.4	117.3
20°	1594.0	1123.6	670.9	336.9	240.0	185.4	145.9	125.4	110.4	99.6	95.5
22.5°	1622.7	1130.3	647.7	301.4	201.8	154.1	121.4	102.3	89.9	80.5	77.7
25°	1546.3	998.1	518.1	214.0	150.0	125.4	95.5	81.8	72.3	64.1	62.7
26°	1487.6	919.0	451.3	177.3	132.2	111.8	85.9	73.7	65.4	58.6	57.3
27°	1404.5	834.5	385.9	147.2	117.3	100.9	76.4	66.8	60.0	53.2	53.2
28°	1310.3	743.1	310.9	124.1	105.0	89.9	69.5	60.0	53.2	49.0	49.0
29°	1197.2	610.9	227.7	107.7	92.8	79.1	61.4	53.2	47.7	45.0	45.0
30°	1029.4	443.2	156.8	94.1	80.5	69.5	54.6	47.7	43.6	40.9	40.9
31°	804.4	272.7	122.7	81.8	70.9	61.4	49.0	42.3	39.6	36.8	38.2
32°	548.2	170.4	105.0	70.9	62.7	53.2	43.6	38.2	35.5	34.1	34.1
33°	312.2	141.8	91.3	61.4	53.2	46.3	38.2	34.1	32.8	31.4	31.4
34°	207.2	121.4	79.1	51.9	43.6	39.6	32.8	29.9	28.6	28.6	28.6
35°	174.6	105.0	64.1	43.6	38.2	34.1	28.6	27.2	25.9	25.9	27.2
36°	147.2	87.2	51.9	36.8	32.8	29.9	25.9	24.5	23.2	23.2	24.5
37°	124.1	69.5	43.6	31.4	27.2	25.9	23.2	21.8	21.8	21.8	23.2
38°	100.9	55.9	36.8	27.2	24.5	21.8	20.5	19.1	19.1	20.5	21.8
39°	79.1	45.0	29.9	23.2	20.5	19.1	17.7	17.7	17.7	17.7	19.1
40°	62.7	38.2	25.9	20.5	17.7	17.7	16.4	15.0	16.4	16.4	19.1
42.5°	39.6	27.2	19.1	15.0	13.7	13.7	12.3	12.3	12.3	13.7	15.0
45°	28.6	21.8	15.0	12.3	11.0	9.5	9.5	9.5	11.0	12.3	13.7
47.5°	21.8	15.0	11.0	8.1	6.8	6.8	6.8	6.8	8.1	9.5	11.0
50°	15.0	9.5	6.8	5.4	5.4	5.4	5.4	5.4	6.8	8.1	9.5
51°	12.3	8.1	6.8	5.4	5.4	4.1	4.1	5.4	6.8	6.8	8.1
52°	9.5	6.8	5.4	4.1	4.1	4.1	4.1	5.4	5.4	6.8	8.1
53°	8.1	6.8	5.4	4.1	4.1	4.1	4.1	4.1	5.4	6.8	8.1
54°	6.8	5.4	4.1	4.1	4.1	4.1	4.1	4.1	5.4	6.8	8.1
55°	5.4	5.4	4.1	4.1	4.1	4.1	4.1	4.1	5.4	5.4	6.8
57.5°	5.4	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.4	6.8
60°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.4	6.8
61°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.4	6.8
62°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.4	6.8
63°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	5.4	5.4	6.8
64°	4.1	4.1	4.1	4.1	5.4	5.4	4.1	4.1	5.4	5.4	6.8
65°	4.1	4.1	5.4	5.4	5.4	5.4	4.1	4.1	5.4	5.4	6.8
66°	4.1	5.4	5.4	5.4	5.4	5.4	4.1	4.1	5.4	5.4	6.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	4.1	5.4	5.4	5.4	5.4	5.4	5.4	4.1	5.4	5.4	5.4
75°	4.1	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
77.5°	4.1	5.4	5.4	5.4	5.4	5.4	5.4	4.1	4.1	5.4	5.4
80°	4.1	5.4	5.4	5.4	5.4	5.4	5.4	4.1	4.1	5.4	5.4
82.5°	4.1	5.4	5.4	5.4	5.4	5.4	5.4	4.1	4.1	4.1	5.4
85°	4.1	4.1	5.4	5.4	5.4	5.4	5.4	4.1	4.1	4.1	4.1
87.5°	4.1	4.1	5.4	5.4	5.4	5.4	4.1	4.1	4.1	4.1	4.1
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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CATALOG NUMBER: LDSQA4A30940D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7
2.5°	218.2	214.0	211.3	210.0	211.3	208.6	204.5	205.9	204.5	203.2	203.2
5°	207.2	200.5	197.7	196.4	196.4	195.0	189.5	190.9	189.5	188.1	188.1
7.5°	192.2	186.8	182.7	181.4	181.4	180.0	174.6	177.3	174.6	173.1	174.6
10°	174.6	169.0	167.7	165.0	165.0	163.6	159.6	160.9	159.6	159.6	159.6
12.5°	155.5	150.0	148.6	147.2	148.6	147.2	143.2	145.9	144.5	144.5	145.9
15°	135.0	130.9	130.9	129.5	130.9	129.5	128.1	129.5	129.5	129.5	132.2
17.5°	114.6	111.8	111.8	110.4	111.8	111.8	110.4	114.6	114.6	117.3	120.0
20°	94.1	91.3	92.8	92.8	95.5	95.5	95.5	99.6	100.9	103.6	107.7
22.5°	77.7	76.4	77.7	77.7	80.5	81.8	81.8	85.9	89.9	92.8	96.8
25°	62.7	62.7	65.4	65.4	66.8	69.5	70.9	76.4	79.1	81.8	85.9
26°	58.6	58.6	60.0	61.4	62.7	65.4	66.8	72.3	75.0	77.7	81.8
27°	53.2	53.2	55.9	57.3	58.6	61.4	64.1	68.1	70.9	75.0	77.7
28°	49.0	49.0	51.9	53.2	54.6	58.6	60.0	64.1	66.8	70.9	75.0
29°	45.0	46.3	49.0	49.0	51.9	54.6	55.9	61.4	64.1	66.8	70.9
30°	42.3	43.6	45.0	46.3	47.7	50.4	53.2	57.3	60.0	62.7	66.8
31°	39.6	40.9	42.3	43.6	45.0	47.7	50.4	54.6	57.3	60.0	64.1
32°	36.8	36.8	39.6	40.9	42.3	45.0	47.7	51.9	54.6	57.3	61.4
33°	34.1	35.5	36.8	38.2	39.6	42.3	45.0	47.7	50.4	54.6	58.6
34°	31.4	32.8	35.5	36.8	38.2	40.9	42.3	45.0	47.7	51.9	54.6
35°	28.6	31.4	32.8	34.1	35.5	38.2	39.6	43.6	45.0	49.0	51.9
36°	27.2	28.6	31.4	32.8	34.1	35.5	36.8	40.9	43.6	46.3	49.0
37°	24.5	27.2	28.6	29.9	31.4	34.1	35.5	38.2	40.9	43.6	46.3
38°	23.2	24.5	27.2	28.6	29.9	31.4	32.8	36.8	38.2	40.9	43.6
39°	21.8	23.2	25.9	27.2	27.2	29.9	31.4	34.1	35.5	38.2	42.3
40°	20.5	21.8	24.5	24.5	25.9	28.6	29.9	32.8	34.1	36.8	39.6
42.5°	17.7	19.1	20.5	21.8	23.2	24.5	25.9	28.6	29.9	31.4	34.1
45°	15.0	16.4	19.1	19.1	20.5	21.8	23.2	24.5	25.9	28.6	29.9
47.5°	12.3	15.0	16.4	17.7	17.7	19.1	20.5	21.8	23.2	24.5	25.9
50°	11.0	12.3	13.7	15.0	15.0	16.4	17.7	19.1	19.1	20.5	23.2
51°	11.0	12.3	13.7	13.7	15.0	16.4	16.4	17.7	19.1	19.1	20.5
52°	9.5	11.0	12.3	13.7	13.7	15.0	16.4	16.4	17.7	19.1	20.5
53°	9.5	11.0	12.3	12.3	13.7	15.0	15.0	16.4	16.4	17.7	19.1
54°	9.5	11.0	12.3	12.3	13.7	13.7	15.0	15.0	16.4	16.4	17.7
55°	8.1	9.5	11.0	12.3	12.3	13.7	13.7	15.0	15.0	16.4	16.4
57.5°	8.1	9.5	11.0	11.0	11.0	12.3	12.3	13.7	13.7	13.7	15.0
60°	8.1	9.5	9.5	11.0	11.0	12.3	12.3	12.3	12.3	13.7	13.7
61°	8.1	8.1	9.5	11.0	11.0	11.0	12.3	12.3	12.3	12.3	13.7
62°	8.1	8.1	9.5	9.5	11.0	11.0	11.0	12.3	12.3	12.3	12.3
63°	6.8	8.1	9.5	9.5	11.0	11.0	11.0	11.0	11.0	12.3	12.3
64°	6.8	8.1	9.5	9.5	9.5	11.0	11.0	11.0	11.0	11.0	11.0
65°	6.8	8.1	9.5	9.5	9.5	11.0	11.0	11.0	11.0	11.0	11.0
66°	6.8	8.1	9.5	9.5	9.5	11.0	11.0	11.0	11.0	11.0	11.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212330

CATALOG NUMBER: LDSQA4A30940D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	6.8	6.8	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	6.8	6.8	6.8	8.1	8.1	8.1	8.1	8.1	8.1	6.8	6.8
77.5°	5.4	5.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.4
80°	5.4	5.4	6.8	6.8	6.8	6.8	6.8	6.8	5.4	5.4	5.4
82.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.1	4.1
85°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.1	4.1	2.7
87.5°	4.1	5.4	5.4	5.4	5.4	5.4	4.1	4.1	4.1	2.7	2.7
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: P1212330

CATALOG NUMBER: LDSQA4A30940D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	227.7	227.7	227.7	227.7	227.7	227.7	227.7	227.7
2.5°	204.5	200.5	199.1	199.1	200.5	199.1	200.5	199.1
5°	188.1	184.1	184.1	182.7	184.1	182.7	184.1	182.7
7.5°	174.6	170.4	170.4	170.4	170.4	170.4	171.8	170.4
10°	160.9	156.8	156.8	155.5	156.8	156.8	158.2	156.8
12.5°	147.2	144.5	144.5	143.2	145.9	144.5	147.2	145.9
15°	135.0	132.2	132.2	133.7	135.0	135.0	136.4	136.4
17.5°	122.7	122.7	122.7	124.1	125.4	126.8	128.1	126.8
20°	111.8	111.8	113.2	114.6	115.9	117.3	118.6	118.6
22.5°	100.9	100.9	102.3	105.0	107.7	109.0	110.4	110.4
25°	89.9	91.3	92.8	94.1	98.2	99.6	100.9	100.9
26°	85.9	87.2	89.9	91.3	94.1	95.5	98.2	98.2
27°	83.2	84.5	85.9	87.2	91.3	92.8	95.5	94.1
28°	79.1	80.5	81.8	84.5	87.2	89.9	91.3	91.3
29°	75.0	77.7	79.1	80.5	84.5	85.9	87.2	87.2
30°	72.3	73.7	75.0	77.7	80.5	83.2	84.5	84.5
31°	68.1	70.9	72.3	73.7	77.7	79.1	81.8	81.8
32°	65.4	66.8	68.1	70.9	73.7	76.4	77.7	77.7
33°	61.4	64.1	65.4	66.8	70.9	73.7	75.0	73.7
34°	58.6	61.4	61.4	64.1	66.8	69.5	70.9	70.9
35°	55.9	57.3	58.6	61.4	64.1	66.8	68.1	68.1
36°	53.2	54.6	55.9	58.6	61.4	64.1	65.4	65.4
37°	50.4	51.9	53.2	54.6	58.6	61.4	62.7	62.7
38°	47.7	49.0	50.4	53.2	55.9	57.3	60.0	60.0
39°	45.0	46.3	47.7	50.4	53.2	54.6	57.3	55.9
40°	42.3	45.0	45.0	47.7	50.4	51.9	54.6	53.2
42.5°	36.8	38.2	39.6	40.9	43.6	46.3	47.7	47.7
45°	32.8	34.1	35.5	36.8	38.2	39.6	42.3	40.9
47.5°	27.2	28.6	29.9	31.4	32.8	34.1	35.5	35.5
50°	24.5	24.5	25.9	25.9	28.6	29.9	31.4	31.4
51°	21.8	23.2	24.5	24.5	27.2	27.2	28.6	28.6
52°	21.8	21.8	23.2	23.2	24.5	25.9	27.2	27.2
53°	20.5	20.5	21.8	21.8	23.2	24.5	25.9	25.9
54°	19.1	19.1	20.5	20.5	21.8	23.2	24.5	24.5
55°	17.7	17.7	19.1	19.1	20.5	21.8	23.2	23.2
57.5°	15.0	16.4	16.4	17.7	17.7	19.1	19.1	20.5
60°	13.7	15.0	15.0	15.0	16.4	16.4	16.4	16.4
61°	13.7	13.7	13.7	15.0	15.0	13.7	15.0	13.7
62°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
63°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
64°	12.3	11.0	11.0	11.0	11.0	11.0	11.0	11.0
65°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	9.5
66°	11.0	11.0	9.5	11.0	9.5	9.5	9.5	9.5

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212330

CATALOG NUMBER: LDSQA4A30940D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	6.8	6.8	6.8	6.8	6.8	5.4	5.4	5.4
75°	6.8	6.8	6.8	5.4	5.4	5.4	5.4	4.1
77.5°	5.4	5.4	5.4	5.4	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	2.7	2.7
82.5°	4.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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

1121 Highway 74 South

Peachtree City, GA 30269

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1121 Highway 74 South

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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

Scaled Data Report



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1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report





67.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.1	4.1
70°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.1	4.1

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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

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67.5°	4.1	5.4	5.4	5.4	5.4	5.4	5.4	4.1	5.4	5.4	6.8
70°	4.1	5.4	5.4	5.4	5.4	5.4	5.4	4.1	5.4	5.4	5.4

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1121 Highway 74 South

Peachtree City, GA 30269

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67.5°	6.8	8.1	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
70°	6.8	8.1	8.1	8.1	9.5	9.5	9.5	9.5	9.5	9.5	9.5

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Peachtree City, GA 30269

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Cooper Lighting Solutions Photometric Lab
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67.5°	9.5	9.5	9.5	9.5	9.5	8.1	8.1	8.1
70°	8.1	8.1	8.1	8.1	8.1	6.8	6.8	6.8

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)