

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: P1212204

Luminaire Tested: **LDSQA4A20935D010TE 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: P1212204
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: LDSQA4A20935D010TE 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

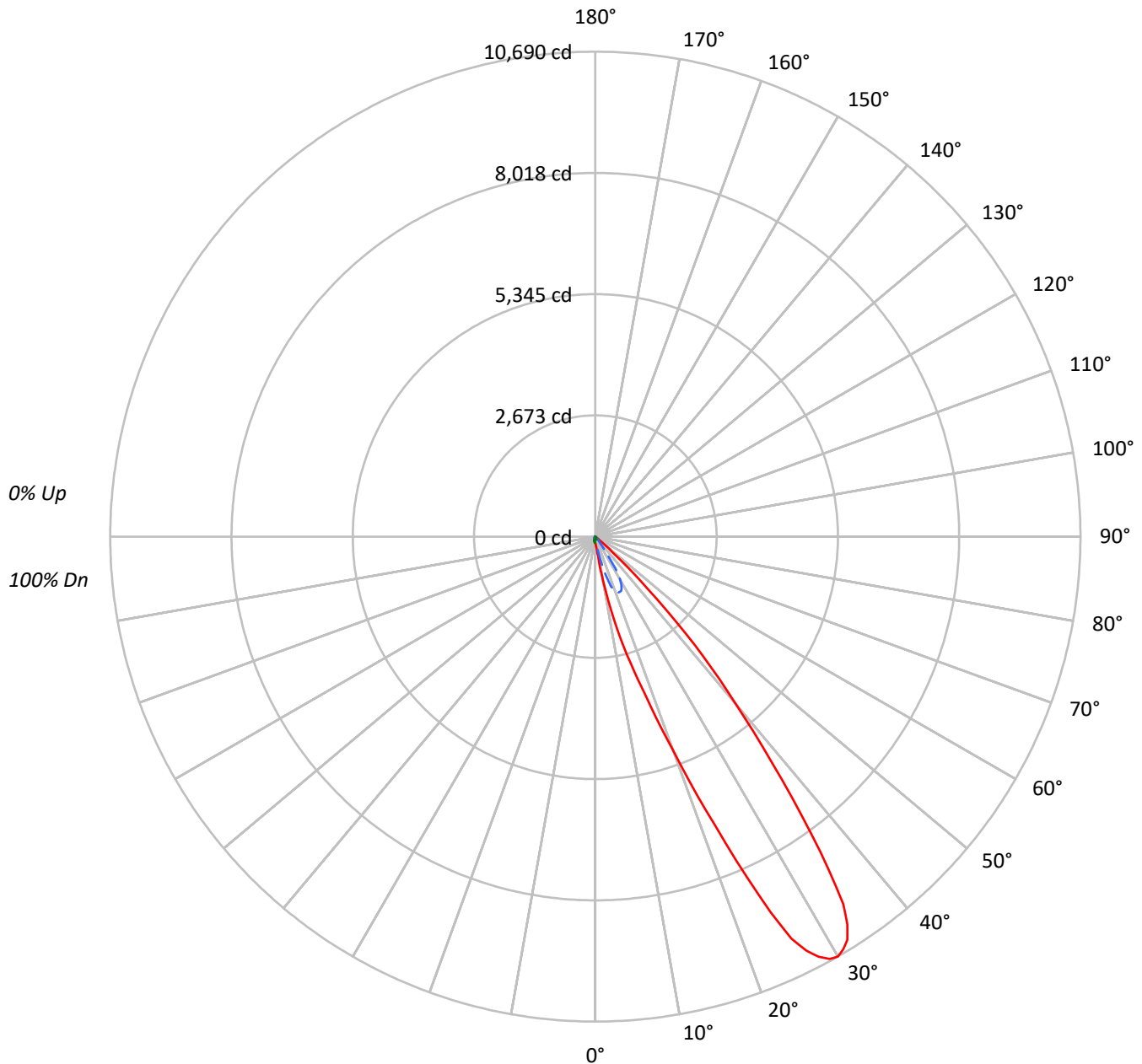
Lumens per Lamp: N/A
Luminaire Lumens: 1643.8 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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



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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°	13737	13737	13737
5°	22853	12953	11057
10°	97494	11352	9591
15°	269878	9016	8515
20°	517639	6392	7608
25°	976004	4254	6713
30°	1195784	2841	5884
35°	1061979	1916	5014
40°	605259	1290	4173
45°	220780	1041	3480
50°	24295	769	2939
55°	3581	574	2449
60°	814	659	1976
65°	573	779	1352
70°	482	963	1190
75°	636	1273	936
80°	0	1897	948
85°	0	2779	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	1.1
10°-20°	178.1	10.8
20°-30°	585.1	35.6
30°-40°	641.6	39.0
40°-50°	200.4	12.2
50°-60°	11.0	0.7
60°-70°	4.4	0.3
70°-80°	3.3	0.2
80°-90°	2.1	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°	781.0	47.5
0°-40°	1422.6	86.5
0°-60°	1634.0	99.4
0°-90°	1643.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1643.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	142	142	142	142	142	
5°	235	188	133	118	114	44
15°	2691	865	90	81	85	845
25°	9131	1328	40	49	63	4070
35°	8980	261	16	28	42	5250
45°	1612	27	8	16	25	1479
55°	21	5	3	9	14	33
65°	2	2	3	7	6	2
75°	2	2	3	5	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°	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8
2.5°	174.8	176.5	177.3	173.1	174.0	172.2	174.0	170.6	164.6	166.3	161.2
5°	235.0	231.7	230.8	224.0	222.3	219.0	219.0	211.4	200.3	198.6	188.3
7.5°	415.8	398.0	382.7	359.8	337.7	320.7	314.0	286.8	257.1	246.1	222.3
10°	991.1	987.8	949.6	877.4	794.2	734.0	699.2	594.1	460.8	379.3	294.4
12.5°	1804.1	1787.1	1732.9	1600.5	1457.0	1367.0	1296.6	1084.5	886.8	728.1	521.8
15°	2690.9	2622.2	2542.4	2337.0	2135.9	2018.9	1918.7	1664.1	1357.8	1129.4	864.8
17.5°	3637.9	3668.5	3475.0	3121.1	2763.9	2580.6	2410.8	2019.7	1684.5	1446.9	1149.0
20°	5021.1	4956.6	4616.3	4030.0	3503.0	3196.6	2955.7	2391.4	1885.5	1589.4	1307.7
22.5°	6890.6	6685.2	6021.6	5029.7	4193.7	3768.6	3426.6	2666.2	2054.4	1662.4	1333.2
25°	9130.9	8940.8	7712.0	5991.0	4754.6	4203.9	3738.9	2841.0	2122.3	1674.3	1328.1
26°	9862.3	9579.8	8335.7	6333.1	4926.9	4314.2	3816.1	2875.0	2124.0	1665.0	1306.0
27°	10240.8	10019.4	8851.7	6610.6	5044.8	4383.8	3859.4	2883.5	2107.0	1643.7	1272.0
28°	10490.2	10283.2	9178.3	6792.2	5105.1	4411.0	3872.2	2864.9	2068.9	1606.4	1218.6
29°	10644.7	10426.6	9337.8	6874.4	5109.4	4399.1	3848.3	2815.6	2017.1	1561.4	1156.6
30°	10689.8	10453.8	9342.1	6840.5	5046.6	4335.4	3781.4	2735.8	1954.2	1504.6	1087.9
31°	10610.0	10366.4	9188.5	6686.1	4917.5	4211.6	3676.1	2630.7	1876.2	1444.3	981.8
32°	10477.6	10154.2	8867.0	6429.8	4741.0	4062.2	3544.6	2516.1	1793.0	1367.9	832.4
33°	10195.8	9805.4	8374.7	6108.2	4528.9	3890.7	3391.0	2388.8	1714.2	1236.3	618.6
34°	9772.3	9279.3	7771.4	5733.9	4288.7	3677.0	3214.4	2270.9	1631.8	1062.5	423.5
35°	8979.8	8520.7	7105.3	5335.1	4030.0	3469.8	3020.2	2116.4	1519.8	852.0	261.4
36°	8093.0	7755.3	6459.4	4929.5	3765.2	3255.2	2819.8	2002.6	1354.4	627.1	177.3
37°	7186.7	6887.2	5850.2	4530.6	3499.6	3017.6	2616.2	1873.7	1157.5	418.4	142.6
38°	6323.7	6086.1	5271.4	4138.6	3223.8	2769.0	2402.4	1736.2	945.4	269.0	117.1
39°	5531.1	5352.9	4704.6	3759.3	2947.1	2525.4	2197.0	1563.1	721.4	191.8	97.5
40°	4786.1	4660.5	4158.2	3385.0	2672.2	2286.2	2011.1	1353.4	500.6	151.9	79.0
42.5°	3255.2	3223.8	2925.9	2436.3	1984.8	1759.2	1590.2	761.2	192.6	91.6	44.1
45°	1611.5	1633.5	1514.7	1393.4	1299.2	1230.4	1002.2	317.4	106.9	50.0	27.1
47.5°	570.2	571.0	491.3	437.8	418.4	416.6	303.0	112.0	56.9	30.6	19.5
50°	161.2	174.0	163.8	167.1	130.7	111.2	90.8	54.3	28.8	19.5	12.7
51°	99.4	106.9	100.2	103.5	89.9	80.6	67.9	40.8	22.9	16.2	11.8
52°	63.7	67.9	64.5	65.3	60.2	52.6	45.8	29.8	18.7	13.6	10.2
53°	43.3	45.8	43.3	43.3	39.8	37.4	32.2	22.1	15.3	11.0	7.6
54°	29.8	30.6	30.6	30.6	28.0	26.3	22.9	17.0	12.7	10.2	6.8
55°	21.2	22.1	21.2	21.2	20.4	18.7	17.0	12.7	10.2	8.6	5.1
57.5°	9.4	9.4	9.4	10.2	9.4	9.4	8.6	7.6	6.8	5.1	3.4
60°	4.2	4.2	4.2	4.2	5.1	5.1	5.1	5.1	4.2	3.4	3.4
61°	3.4	3.4	3.4	3.4	3.4	4.2	4.2	4.2	3.4	3.4	2.5
62°	2.5	2.5	2.5	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5
63°	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	2.5	2.5	2.5
64°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	2.5	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5
66°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5
77.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	2.5
80°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	2.5
82.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	2.5
85°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	2.5
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	2.5
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°	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8
2.5°	157.8	157.0	152.8	148.5	149.4	147.7	145.9	143.4	141.8	137.5	137.5
5°	179.9	175.7	166.3	157.8	157.0	153.6	148.5	143.4	139.1	133.2	131.6
7.5°	205.4	193.4	178.2	164.6	162.0	157.0	147.7	140.8	133.2	125.6	123.0
10°	241.8	213.8	187.5	167.1	162.0	154.4	142.6	133.2	124.7	115.4	112.0
12.5°	371.7	263.9	199.4	167.1	157.8	148.5	134.1	123.0	112.8	102.6	99.4
15°	619.4	421.8	253.0	167.1	150.2	139.1	121.4	110.3	99.4	89.9	86.6
17.5°	855.4	600.0	352.2	188.3	151.0	128.2	106.1	94.2	84.9	75.5	73.0
20°	991.9	699.2	417.4	209.6	149.4	115.4	90.8	78.1	68.7	62.0	59.4
22.5°	1009.8	703.4	403.1	187.5	125.6	95.9	75.5	63.7	56.1	50.0	48.3
25°	962.3	621.2	322.5	133.2	93.4	78.1	59.4	51.0	45.0	39.8	39.0
26°	925.8	572.0	280.9	110.3	82.2	69.6	53.4	45.8	40.8	36.5	35.7
27°	874.0	519.4	240.2	91.6	73.0	62.8	47.5	41.6	37.4	33.0	33.0
28°	815.4	462.5	193.4	77.3	65.3	56.1	43.3	37.4	33.0	30.6	30.6
29°	745.0	380.2	141.8	67.1	57.8	49.2	38.2	33.0	29.8	28.0	28.0
30°	640.6	275.8	97.5	58.6	50.0	43.3	33.9	29.8	27.1	25.4	25.4
31°	500.6	169.8	76.3	51.0	44.1	38.2	30.6	26.3	24.6	22.9	23.7
32°	341.1	106.1	65.3	44.1	39.0	33.0	27.1	23.7	22.1	21.2	21.2
33°	194.4	88.3	56.9	38.2	33.0	28.8	23.7	21.2	20.4	19.5	19.5
34°	129.0	75.5	49.2	32.2	27.1	24.6	20.4	18.7	17.8	17.8	17.8
35°	108.6	65.3	39.8	27.1	23.7	21.2	17.8	17.0	16.2	16.2	17.0
36°	91.6	54.3	32.2	22.9	20.4	18.7	16.2	15.3	14.5	14.5	15.3
37°	77.3	43.3	27.1	19.5	17.0	16.2	14.5	13.6	13.6	13.6	14.5
38°	62.8	34.9	22.9	17.0	15.3	13.6	12.7	11.8	11.8	12.7	13.6
39°	49.2	28.0	18.7	14.5	12.7	11.8	11.0	11.0	11.0	11.0	11.8
40°	39.0	23.7	16.2	12.7	11.0	11.0	10.2	9.4	10.2	10.2	11.8
42.5°	24.6	17.0	11.8	9.4	8.6	8.6	7.6	7.6	7.6	8.6	9.4
45°	17.8	13.6	9.4	7.6	6.8	5.9	5.9	5.9	6.8	7.6	8.6
47.5°	13.6	9.4	6.8	5.1	4.2	4.2	4.2	4.2	5.1	5.9	6.8
50°	9.4	5.9	4.2	3.4	3.4	3.4	3.4	3.4	4.2	5.1	5.9
51°	7.6	5.1	4.2	3.4	3.4	2.5	2.5	3.4	4.2	4.2	5.1
52°	5.9	4.2	3.4	2.5	2.5	2.5	2.5	3.4	3.4	4.2	5.1
53°	5.1	4.2	3.4	2.5	2.5	2.5	2.5	2.5	3.4	4.2	5.1
54°	4.2	3.4	2.5	2.5	2.5	2.5	2.5	2.5	3.4	4.2	5.1
55°	3.4	3.4	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	4.2
57.5°	3.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	4.2
60°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	4.2
61°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	4.2
62°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	4.2
63°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	4.2
64°	2.5	2.5	2.5	2.5	3.4	3.4	2.5	2.5	3.4	3.4	4.2
65°	2.5	2.5	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4	4.2
66°	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4	4.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	3.4	3.4	3.4
75°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4
80°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4
82.5°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	3.4
85°	2.5	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5	2.5
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°	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8
2.5°	135.8	133.2	131.6	130.7	131.6	129.8	127.3	128.2	127.3	126.5	126.5
5°	129.0	124.7	123.0	122.2	122.2	121.4	117.9	118.8	117.9	117.1	117.1
7.5°	119.6	116.2	113.7	112.8	112.8	112.0	108.6	110.3	108.6	107.8	108.6
10°	108.6	105.3	104.4	102.6	102.6	101.8	99.4	100.2	99.4	99.4	99.4
12.5°	96.7	93.4	92.5	91.6	92.5	91.6	89.1	90.8	89.9	89.9	90.8
15°	84.0	81.4	81.4	80.6	81.4	80.6	79.8	80.6	80.6	80.6	82.2
17.5°	71.2	69.6	69.6	68.7	69.6	69.6	68.7	71.2	71.2	73.0	74.6
20°	58.6	56.9	57.8	57.8	59.4	59.4	59.4	62.0	62.8	64.5	67.1
22.5°	48.3	47.5	48.3	48.3	50.0	51.0	51.0	53.4	56.1	57.8	60.2
25°	39.0	39.0	40.8	40.8	41.6	43.3	44.1	47.5	49.2	51.0	53.4
26°	36.5	36.5	37.4	38.2	39.0	40.8	41.6	45.0	46.7	48.3	51.0
27°	33.0	33.0	34.9	35.7	36.5	38.2	39.8	42.4	44.1	46.7	48.3
28°	30.6	30.6	32.2	33.0	33.9	36.5	37.4	39.8	41.6	44.1	46.7
29°	28.0	28.8	30.6	30.6	32.2	33.9	34.9	38.2	39.8	41.6	44.1
30°	26.3	27.1	28.0	28.8	29.8	31.4	33.0	35.7	37.4	39.0	41.6
31°	24.6	25.4	26.3	27.1	28.0	29.8	31.4	33.9	35.7	37.4	39.8
32°	22.9	22.9	24.6	25.4	26.3	28.0	29.8	32.2	33.9	35.7	38.2
33°	21.2	22.1	22.9	23.7	24.6	26.3	28.0	29.8	31.4	33.9	36.5
34°	19.5	20.4	22.1	22.9	23.7	25.4	26.3	28.0	29.8	32.2	33.9
35°	17.8	19.5	20.4	21.2	22.1	23.7	24.6	27.1	28.0	30.6	32.2
36°	17.0	17.8	19.5	20.4	21.2	22.1	22.9	25.4	27.1	28.8	30.6
37°	15.3	17.0	17.8	18.7	19.5	21.2	22.1	23.7	25.4	27.1	28.8
38°	14.5	15.3	17.0	17.8	18.7	19.5	20.4	22.9	23.7	25.4	27.1
39°	13.6	14.5	16.2	17.0	17.0	18.7	19.5	21.2	22.1	23.7	26.3
40°	12.7	13.6	15.3	15.3	16.2	17.8	18.7	20.4	21.2	22.9	24.6
42.5°	11.0	11.8	12.7	13.6	14.5	15.3	16.2	17.8	18.7	19.5	21.2
45°	9.4	10.2	11.8	11.8	12.7	13.6	14.5	15.3	16.2	17.8	18.7
47.5°	7.6	9.4	10.2	11.0	11.0	11.8	12.7	13.6	14.5	15.3	16.2
50°	6.8	7.6	8.6	9.4	9.4	10.2	11.0	11.8	11.8	12.7	14.5
51°	6.8	7.6	8.6	8.6	9.4	10.2	10.2	11.0	11.8	11.8	12.7
52°	5.9	6.8	7.6	8.6	8.6	9.4	10.2	10.2	11.0	11.8	12.7
53°	5.9	6.8	7.6	7.6	8.6	9.4	9.4	10.2	10.2	11.0	11.8
54°	5.9	6.8	7.6	7.6	8.6	8.6	9.4	9.4	10.2	10.2	11.0
55°	5.1	5.9	6.8	7.6	7.6	8.6	8.6	9.4	9.4	10.2	10.2
57.5°	5.1	5.9	6.8	6.8	6.8	7.6	7.6	8.6	8.6	8.6	9.4
60°	5.1	5.9	5.9	6.8	6.8	7.6	7.6	7.6	7.6	8.6	8.6
61°	5.1	5.1	5.9	6.8	6.8	6.8	7.6	7.6	7.6	7.6	8.6
62°	5.1	5.1	5.9	5.9	6.8	6.8	6.8	7.6	7.6	7.6	7.6
63°	4.2	5.1	5.9	5.9	6.8	6.8	6.8	6.8	6.8	7.6	7.6
64°	4.2	5.1	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8
65°	4.2	5.1	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8
66°	4.2	5.1	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212204

CATALOG NUMBER: LDSQA4A20935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	4.2	4.2	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
75°	4.2	4.2	4.2	5.1	5.1	5.1	5.1	5.1	5.1	4.2	4.2
77.5°	3.4	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.4
80°	3.4	3.4	4.2	4.2	4.2	4.2	4.2	4.2	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	1.7
87.5°	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	1.7	1.7
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: P1212204

CATALOG NUMBER: LDSQA4A20935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8
2.5°	127.3	124.7	123.8	123.8	124.7	123.8	124.7	123.8
5°	117.1	114.6	114.6	113.7	114.6	113.7	114.6	113.7
7.5°	108.6	106.1	106.1	106.1	106.1	106.1	106.9	106.1
10°	100.2	97.5	97.5	96.7	97.5	97.5	98.5	97.5
12.5°	91.6	89.9	89.9	89.1	90.8	89.9	91.6	90.8
15°	84.0	82.2	82.2	83.2	84.0	84.0	84.9	84.9
17.5°	76.3	76.3	76.3	77.3	78.1	79.0	79.8	79.0
20°	69.6	69.6	70.4	71.2	72.2	73.0	73.8	73.8
22.5°	62.8	62.8	63.7	65.3	67.1	67.9	68.7	68.7
25°	56.1	56.9	57.8	58.6	61.0	62.0	62.8	62.8
26°	53.4	54.3	56.1	56.9	58.6	59.4	61.0	61.0
27°	51.8	52.6	53.4	54.3	56.9	57.8	59.4	58.6
28°	49.2	50.0	51.0	52.6	54.3	56.1	56.9	56.9
29°	46.7	48.3	49.2	50.0	52.6	53.4	54.3	54.3
30°	45.0	45.8	46.7	48.3	50.0	51.8	52.6	52.6
31°	42.4	44.1	45.0	45.8	48.3	49.2	51.0	51.0
32°	40.8	41.6	42.4	44.1	45.8	47.5	48.3	48.3
33°	38.2	39.8	40.8	41.6	44.1	45.8	46.7	45.8
34°	36.5	38.2	38.2	39.8	41.6	43.3	44.1	44.1
35°	34.9	35.7	36.5	38.2	39.8	41.6	42.4	42.4
36°	33.0	33.9	34.9	36.5	38.2	39.8	40.8	40.8
37°	31.4	32.2	33.0	33.9	36.5	38.2	39.0	39.0
38°	29.8	30.6	31.4	33.0	34.9	35.7	37.4	37.4
39°	28.0	28.8	29.8	31.4	33.0	33.9	35.7	34.9
40°	26.3	28.0	28.0	29.8	31.4	32.2	33.9	33.0
42.5°	22.9	23.7	24.6	25.4	27.1	28.8	29.8	29.8
45°	20.4	21.2	22.1	22.9	23.7	24.6	26.3	25.4
47.5°	17.0	17.8	18.7	19.5	20.4	21.2	22.1	22.1
50°	15.3	15.3	16.2	16.2	17.8	18.7	19.5	19.5
51°	13.6	14.5	15.3	15.3	17.0	17.0	17.8	17.8
52°	13.6	13.6	14.5	14.5	15.3	16.2	17.0	17.0
53°	12.7	12.7	13.6	13.6	14.5	15.3	16.2	16.2
54°	11.8	11.8	12.7	12.7	13.6	14.5	15.3	15.3
55°	11.0	11.0	11.8	11.8	12.7	13.6	14.5	14.5
57.5°	9.4	10.2	10.2	11.0	11.0	11.8	11.8	12.7
60°	8.6	9.4	9.4	9.4	10.2	10.2	10.2	10.2
61°	8.6	8.6	8.6	9.4	9.4	8.6	9.4	8.6
62°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
63°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
64°	7.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
65°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.9
66°	6.8	6.8	5.9	6.8	5.9	5.9	5.9	5.9



TEST NUMBER: P1212204

CATALOG NUMBER: LDSQA4A20935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	4.2	4.2	4.2	4.2	4.2	3.4	3.4	3.4
75°	4.2	4.2	4.2	3.4	3.4	3.4	3.4	2.5
77.5°	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7
82.5°	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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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— 0°-180° - - 45°-225° - - - 90°-270°

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67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5

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Cooper Lighting Solutions Photometric Lab

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67.5°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	3.4	3.4	4.2
70°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	3.4	3.4	3.4

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67.5°	4.2	5.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	4.2	5.1	5.1	5.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9

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67.5°	5.9	5.9	5.9	5.9	5.9	5.1	5.1	5.1
70°	5.1	5.1	5.1	5.1	5.1	4.2	4.2	4.2

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)