

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: P1212064

Luminaire Tested: **LDSQA4A10927D010TE LAR15SP 4LSQA1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212064
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: LDSQA4A10927D010TE 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 / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

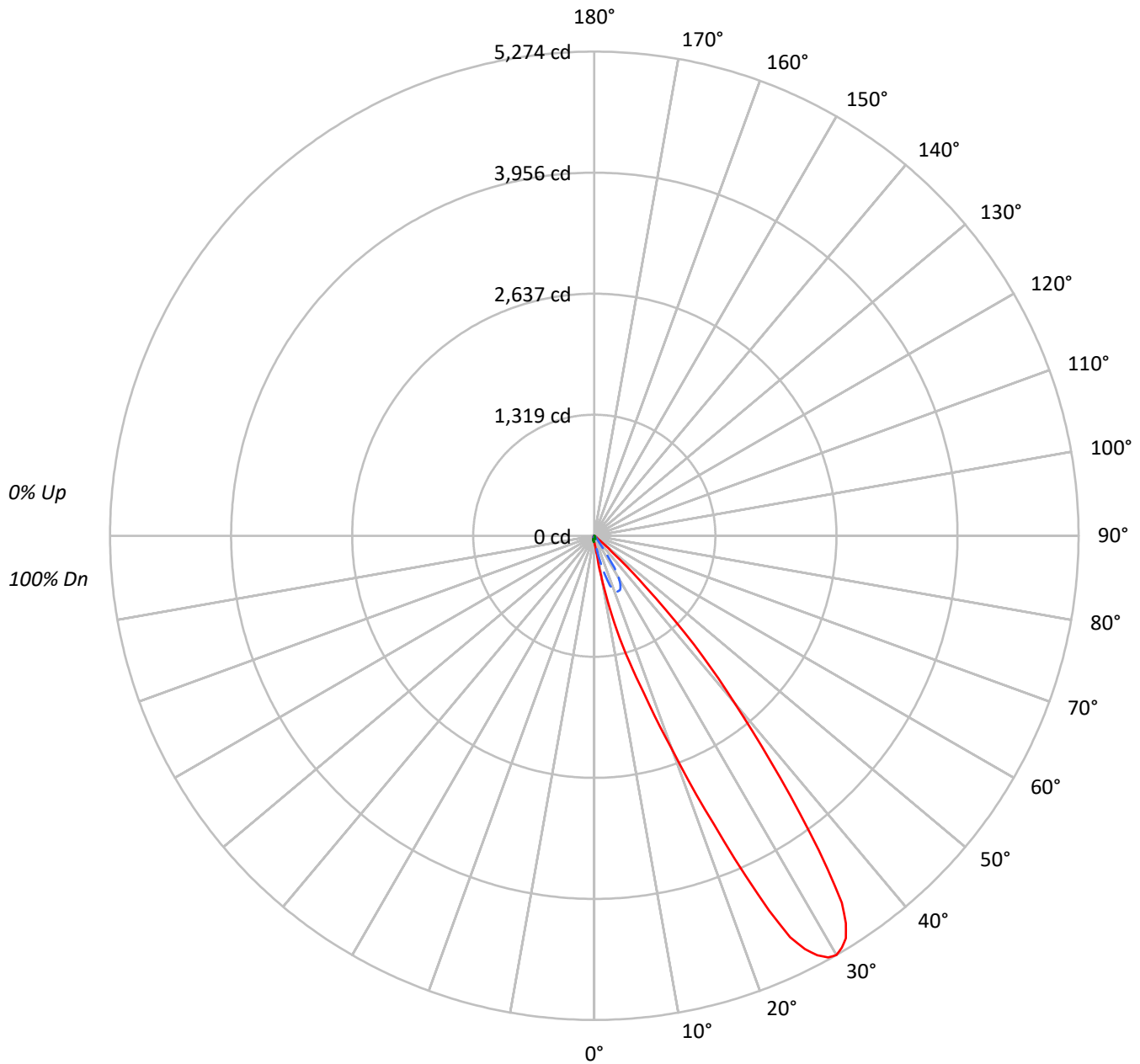
Lumens per Lamp: N/A
Luminaire Lumens: 811.1 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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	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°	6772	6772	6772
5°	11280	6389	5455
10°	48103	5597	4732
15°	133149	4453	4202
20°	255391	3155	3753
25°	481530	2106	3314
30°	589961	1409	2908
35°	523953	946	2472
40°	298614	632	2061
45°	108931	521	1726
50°	11982	377	1447
55°	1773	287	1199
60°	407	329	969
65°	298	390	665
70°	227	482	595
75°	299	636	487
80°	0	948	446
85°	0	1445	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	1.1
10°-20°	87.9	10.8
20°-30°	288.7	35.6
30°-40°	316.5	39.0
40°-50°	98.9	12.2
50°-60°	5.4	0.7
60°-70°	2.2	0.3
70°-80°	1.7	0.2
80°-90°	1.0	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°	385.3	47.5
0°-40°	701.9	86.5
0°-60°	806.2	99.4
0°-90°	811.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	811.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	116	93	66	58	56	22
15°	1328	427	44	40	42	417
25°	4505	655	20	24	31	2008
35°	4430	129	8	14	21	2590
45°	795	13	4	8	13	730
55°	10	2	2	5	7	16
65°	1	1	2	3	3	1
75°	1	1	2	2	1	1
85°	0	1	1	1	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°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	86.2	87.1	87.5	85.4	85.8	85.0	85.8	84.2	81.2	82.1	79.5
5°	116.0	114.3	113.9	110.5	109.7	108.0	108.0	104.2	98.8	98.0	92.9
7.5°	205.1	196.4	188.8	177.5	166.6	158.3	154.9	141.5	126.9	121.4	109.7
10°	489.0	487.3	468.5	432.9	391.9	362.1	345.0	293.1	227.3	187.1	145.3
12.5°	890.1	881.7	854.9	789.6	718.9	674.5	639.7	535.1	437.5	359.2	257.5
15°	1327.6	1293.7	1254.3	1153.0	1053.8	996.0	946.6	821.0	669.9	557.2	426.6
17.5°	1794.8	1809.9	1714.5	1539.9	1363.6	1273.2	1189.4	996.4	831.1	713.8	566.9
20°	2477.3	2445.4	2277.6	1988.3	1728.3	1577.1	1458.2	1179.8	930.3	784.2	645.2
22.5°	3399.6	3298.3	2970.9	2481.5	2069.1	1859.3	1690.6	1315.5	1013.6	820.2	657.7
25°	4504.9	4411.1	3804.9	2955.8	2345.8	2074.1	1844.7	1401.7	1047.1	826.0	655.2
26°	4865.8	4726.4	4112.6	3124.5	2430.8	2128.5	1882.8	1418.5	1047.9	821.4	644.3
27°	5052.5	4943.2	4367.1	3261.4	2489.0	2162.8	1904.1	1422.6	1039.6	811.0	627.6
28°	5175.6	5073.4	4528.3	3351.0	2518.7	2176.2	1910.4	1413.4	1020.7	792.5	601.2
29°	5251.8	5144.2	4607.0	3391.6	2520.8	2170.4	1898.7	1389.1	995.2	770.4	570.6
30°	5274.0	5157.6	4609.1	3374.9	2489.8	2139.0	1865.6	1349.8	964.2	742.3	536.7
31°	5234.6	5114.5	4533.3	3298.7	2426.2	2077.9	1813.7	1297.9	925.7	712.6	484.4
32°	5169.3	5009.8	4374.7	3172.3	2339.1	2004.2	1748.8	1241.4	884.6	674.9	410.7
33°	5030.3	4837.7	4131.8	3013.6	2234.4	1919.6	1673.0	1178.6	845.7	610.0	305.2
34°	4821.4	4578.1	3834.2	2828.9	2116.0	1814.1	1585.9	1120.4	805.1	524.2	208.9
35°	4430.4	4203.9	3505.5	2632.2	1988.3	1711.9	1490.0	1044.2	749.8	420.3	129.0
36°	3992.8	3826.2	3186.9	2432.0	1857.6	1606.0	1391.2	988.1	668.2	309.4	87.5
37°	3545.7	3397.9	2886.3	2235.3	1726.6	1488.8	1290.8	924.4	571.1	206.4	70.3
38°	3119.9	3002.7	2600.8	2041.8	1590.5	1366.1	1185.3	856.6	466.4	132.7	57.8
39°	2728.9	2641.0	2321.1	1854.7	1454.0	1246.0	1083.9	771.2	355.9	94.6	48.1
40°	2361.3	2299.3	2051.5	1670.1	1318.4	1127.9	992.2	667.8	247.0	74.9	38.9
42.5°	1606.0	1590.5	1443.6	1202.0	979.3	867.9	784.6	375.5	95.0	45.2	21.8
45°	795.1	805.9	747.3	687.5	641.0	607.1	494.4	156.6	52.8	24.7	13.4
47.5°	281.3	281.8	242.4	216.0	206.4	205.6	149.5	55.3	28.1	15.1	9.6
50°	79.5	85.8	80.8	82.5	64.5	54.8	44.8	26.8	14.2	9.6	6.3
51°	49.0	52.8	49.4	51.1	44.4	39.8	33.5	20.1	11.3	8.0	5.9
52°	31.4	33.5	31.8	32.2	29.7	26.0	22.6	14.7	9.2	6.7	5.0
53°	21.4	22.6	21.4	21.4	19.7	18.4	15.9	10.9	7.5	5.4	3.8
54°	14.7	15.1	15.1	15.1	13.8	13.0	11.3	8.4	6.3	5.0	3.3
55°	10.5	10.9	10.5	10.5	10.0	9.2	8.4	6.3	5.0	4.2	2.5
57.5°	4.6	4.6	4.6	5.0	4.6	4.6	4.2	3.8	3.3	2.5	1.7
60°	2.1	2.1	2.1	2.1	2.5	2.5	2.5	2.5	2.1	1.7	1.7
61°	1.7	1.7	1.7	1.7	1.7	2.1	2.1	2.1	1.7	1.7	1.3
62°	1.3	1.3	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.3	1.3
63°	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	1.3	1.3	1.3
64°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	1.3	0.8	0.8	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3
66°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.3

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8	0.8	1.3
80°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8	0.8	1.3
82.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8	0.8	1.3
85°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8	0.8	1.3
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8	0.8	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

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	77.9	77.5	75.4	73.3	73.7	72.8	72.0	70.8	69.9	67.8	67.8
5°	88.8	86.7	82.1	77.9	77.5	75.8	73.3	70.8	68.7	65.7	64.9
7.5°	101.3	95.5	87.9	81.2	80.0	77.5	72.8	69.5	65.7	62.0	60.7
10°	119.3	105.5	92.5	82.5	80.0	76.2	70.3	65.7	61.5	56.9	55.3
12.5°	183.4	130.2	98.4	82.5	77.9	73.3	66.1	60.7	55.7	50.7	49.0
15°	305.6	208.1	124.8	82.5	74.1	68.7	59.9	54.4	49.0	44.4	42.7
17.5°	422.0	296.0	173.7	92.9	74.5	63.2	52.3	46.5	41.9	37.3	36.0
20°	489.4	345.0	206.0	103.4	73.7	56.9	44.8	38.5	33.9	30.6	29.3
22.5°	498.2	347.1	198.9	92.5	62.0	47.3	37.3	31.4	27.6	24.7	23.9
25°	474.8	306.5	159.1	65.7	46.1	38.5	29.3	25.1	22.2	19.7	19.3
26°	456.8	282.2	138.6	54.4	40.6	34.3	26.4	22.6	20.1	18.0	17.6
27°	431.2	256.2	118.5	45.2	36.0	31.0	23.4	20.5	18.4	16.3	16.3
28°	402.3	228.2	95.5	38.1	32.2	27.6	21.4	18.4	16.3	15.1	15.1
29°	367.6	187.6	69.9	33.1	28.5	24.3	18.8	16.3	14.7	13.8	13.8
30°	316.1	136.1	48.1	28.9	24.7	21.4	16.7	14.7	13.4	12.6	12.6
31°	247.0	83.7	37.7	25.1	21.8	18.8	15.1	13.0	12.1	11.3	11.7
32°	168.3	52.3	32.2	21.8	19.3	16.3	13.4	11.7	10.9	10.5	10.5
33°	95.9	43.5	28.1	18.8	16.3	14.2	11.7	10.5	10.0	9.6	9.6
34°	63.6	37.3	24.3	15.9	13.4	12.1	10.0	9.2	8.8	8.8	8.8
35°	53.6	32.2	19.7	13.4	11.7	10.5	8.8	8.4	8.0	8.0	8.4
36°	45.2	26.8	15.9	11.3	10.0	9.2	8.0	7.5	7.1	7.1	7.5
37°	38.1	21.4	13.4	9.6	8.4	8.0	7.1	6.7	6.7	6.7	7.1
38°	31.0	17.2	11.3	8.4	7.5	6.7	6.3	5.9	5.9	6.3	6.7
39°	24.3	13.8	9.2	7.1	6.3	5.9	5.4	5.4	5.4	5.4	5.9
40°	19.3	11.7	8.0	6.3	5.4	5.4	5.0	4.6	5.0	5.0	5.9
42.5°	12.1	8.4	5.9	4.6	4.2	4.2	3.8	3.8	3.8	4.2	4.6
45°	8.8	6.7	4.6	3.8	3.3	2.9	2.9	2.9	3.3	3.8	4.2
47.5°	6.7	4.6	3.3	2.5	2.1	2.1	2.1	2.1	2.5	2.9	3.3
50°	4.6	2.9	2.1	1.7	1.7	1.7	1.7	1.7	2.1	2.5	2.9
51°	3.8	2.5	2.1	1.7	1.7	1.3	1.3	1.7	2.1	2.1	2.5
52°	2.9	2.1	1.7	1.3	1.3	1.3	1.3	1.7	1.7	2.1	2.5
53°	2.5	2.1	1.7	1.3	1.3	1.3	1.3	1.3	1.7	2.1	2.5
54°	2.1	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.7	2.1	2.5
55°	1.7	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	2.1
57.5°	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	2.1
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	2.1
61°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	2.1
62°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	2.1
63°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.7	2.1
64°	1.3	1.3	1.3	1.3	1.7	1.7	1.3	1.3	1.7	1.7	2.1
65°	1.3	1.3	1.7	1.7	1.7	1.7	1.3	1.3	1.7	1.7	2.1
66°	1.3	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.7	1.7	2.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.3	1.7	1.7	1.7
75°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.7	1.7
80°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.7	1.7
82.5°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.3	1.7
85°	1.3	1.3	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.7	1.7	1.7	1.7	1.3	1.3	1.3	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

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	67.0	65.7	64.9	64.5	64.9	64.1	62.8	63.2	62.8	62.4	62.4
5°	63.6	61.5	60.7	60.3	60.3	59.9	58.2	58.6	58.2	57.8	57.8
7.5°	59.0	57.4	56.1	55.7	55.7	55.3	53.6	54.4	53.6	53.2	53.6
10°	53.6	51.9	51.5	50.7	50.7	50.2	49.0	49.4	49.0	49.0	49.0
12.5°	47.7	46.1	45.6	45.2	45.6	45.2	44.0	44.8	44.4	44.4	44.8
15°	41.4	40.2	40.2	39.8	40.2	39.8	39.4	39.8	39.8	39.8	40.6
17.5°	35.2	34.3	34.3	33.9	34.3	34.3	33.9	35.2	35.2	36.0	36.8
20°	28.9	28.1	28.5	28.5	29.3	29.3	29.3	30.6	31.0	31.8	33.1
22.5°	23.9	23.4	23.9	23.9	24.7	25.1	25.1	26.4	27.6	28.5	29.7
25°	19.3	19.3	20.1	20.1	20.5	21.4	21.8	23.4	24.3	25.1	26.4
26°	18.0	18.0	18.4	18.8	19.3	20.1	20.5	22.2	23.0	23.9	25.1
27°	16.3	16.3	17.2	17.6	18.0	18.8	19.7	20.9	21.8	23.0	23.9
28°	15.1	15.1	15.9	16.3	16.7	18.0	18.4	19.7	20.5	21.8	23.0
29°	13.8	14.2	15.1	15.1	15.9	16.7	17.2	18.8	19.7	20.5	21.8
30°	13.0	13.4	13.8	14.2	14.7	15.5	16.3	17.6	18.4	19.3	20.5
31°	12.1	12.6	13.0	13.4	13.8	14.7	15.5	16.7	17.6	18.4	19.7
32°	11.3	11.3	12.1	12.6	13.0	13.8	14.7	15.9	16.7	17.6	18.8
33°	10.5	10.9	11.3	11.7	12.1	13.0	13.8	14.7	15.5	16.7	18.0
34°	9.6	10.0	10.9	11.3	11.7	12.6	13.0	13.8	14.7	15.9	16.7
35°	8.8	9.6	10.0	10.5	10.9	11.7	12.1	13.4	13.8	15.1	15.9
36°	8.4	8.8	9.6	10.0	10.5	10.9	11.3	12.6	13.4	14.2	15.1
37°	7.5	8.4	8.8	9.2	9.6	10.5	10.9	11.7	12.6	13.4	14.2
38°	7.1	7.5	8.4	8.8	9.2	9.6	10.0	11.3	11.7	12.6	13.4
39°	6.7	7.1	8.0	8.4	8.4	9.2	9.6	10.5	10.9	11.7	13.0
40°	6.3	6.7	7.5	7.5	8.0	8.8	9.2	10.0	10.5	11.3	12.1
42.5°	5.4	5.9	6.3	6.7	7.1	7.5	8.0	8.8	9.2	9.6	10.5
45°	4.6	5.0	5.9	5.9	6.3	6.7	7.1	7.5	8.0	8.8	9.2
47.5°	3.8	4.6	5.0	5.4	5.4	5.9	6.3	6.7	7.1	7.5	8.0
50°	3.3	3.8	4.2	4.6	4.6	5.0	5.4	5.9	5.9	6.3	7.1
51°	3.3	3.8	4.2	4.2	4.6	5.0	5.0	5.4	5.9	5.9	6.3
52°	2.9	3.3	3.8	4.2	4.2	4.6	5.0	5.0	5.4	5.9	6.3
53°	2.9	3.3	3.8	3.8	4.2	4.6	4.6	5.0	5.0	5.4	5.9
54°	2.9	3.3	3.8	3.8	4.2	4.2	4.6	4.6	5.0	5.0	5.4
55°	2.5	2.9	3.3	3.8	3.8	4.2	4.2	4.6	4.6	5.0	5.0
57.5°	2.5	2.9	3.3	3.3	3.3	3.8	3.8	4.2	4.2	4.2	4.6
60°	2.5	2.9	2.9	3.3	3.3	3.8	3.8	3.8	3.8	4.2	4.2
61°	2.5	2.5	2.9	3.3	3.3	3.3	3.8	3.8	3.8	3.8	4.2
62°	2.5	2.5	2.9	2.9	3.3	3.3	3.3	3.8	3.8	3.8	3.8
63°	2.1	2.5	2.9	2.9	3.3	3.3	3.3	3.3	3.3	3.8	3.8
64°	2.1	2.5	2.9	2.9	2.9	3.3	3.3	3.3	3.3	3.3	3.3
65°	2.1	2.5	2.9	2.9	2.9	3.3	3.3	3.3	3.3	3.3	3.3
66°	2.1	2.5	2.9	2.9	2.9	3.3	3.3	3.3	3.3	3.3	3.3



TEST NUMBER: P1212064

CATALOG NUMBER: LDSQA4A10927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	2.1	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	2.1	2.1	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.1	2.1
77.5°	1.7	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.7
80°	1.7	1.7	2.1	2.1	2.1	2.1	2.1	2.1	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.3	1.3
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.3	1.3	0.8
87.5°	1.3	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.3	0.8	0.8
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: P1212064

CATALOG NUMBER: LDSQA4A10927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
2.5°	62.8	61.5	61.1	61.1	61.5	61.1	61.5	61.1
5°	57.8	56.5	56.5	56.1	56.5	56.1	56.5	56.1
7.5°	53.6	52.3	52.3	52.3	52.3	52.3	52.8	52.3
10°	49.4	48.1	48.1	47.7	48.1	48.1	48.6	48.1
12.5°	45.2	44.4	44.4	44.0	44.8	44.4	45.2	44.8
15°	41.4	40.6	40.6	41.0	41.4	41.4	41.9	41.9
17.5°	37.7	37.7	37.7	38.1	38.5	38.9	39.4	38.9
20°	34.3	34.3	34.7	35.2	35.6	36.0	36.4	36.4
22.5°	31.0	31.0	31.4	32.2	33.1	33.5	33.9	33.9
25°	27.6	28.1	28.5	28.9	30.1	30.6	31.0	31.0
26°	26.4	26.8	27.6	28.1	28.9	29.3	30.1	30.1
27°	25.5	26.0	26.4	26.8	28.1	28.5	29.3	28.9
28°	24.3	24.7	25.1	26.0	26.8	27.6	28.1	28.1
29°	23.0	23.9	24.3	24.7	26.0	26.4	26.8	26.8
30°	22.2	22.6	23.0	23.9	24.7	25.5	26.0	26.0
31°	20.9	21.8	22.2	22.6	23.9	24.3	25.1	25.1
32°	20.1	20.5	20.9	21.8	22.6	23.4	23.9	23.9
33°	18.8	19.7	20.1	20.5	21.8	22.6	23.0	22.6
34°	18.0	18.8	18.8	19.7	20.5	21.4	21.8	21.8
35°	17.2	17.6	18.0	18.8	19.7	20.5	20.9	20.9
36°	16.3	16.7	17.2	18.0	18.8	19.7	20.1	20.1
37°	15.5	15.9	16.3	16.7	18.0	18.8	19.3	19.3
38°	14.7	15.1	15.5	16.3	17.2	17.6	18.4	18.4
39°	13.8	14.2	14.7	15.5	16.3	16.7	17.6	17.2
40°	13.0	13.8	13.8	14.7	15.5	15.9	16.7	16.3
42.5°	11.3	11.7	12.1	12.6	13.4	14.2	14.7	14.7
45°	10.0	10.5	10.9	11.3	11.7	12.1	13.0	12.6
47.5°	8.4	8.8	9.2	9.6	10.0	10.5	10.9	10.9
50°	7.5	7.5	8.0	8.0	8.8	9.2	9.6	9.6
51°	6.7	7.1	7.5	7.5	8.4	8.4	8.8	8.8
52°	6.7	6.7	7.1	7.1	7.5	8.0	8.4	8.4
53°	6.3	6.3	6.7	6.7	7.1	7.5	8.0	8.0
54°	5.9	5.9	6.3	6.3	6.7	7.1	7.5	7.5
55°	5.4	5.4	5.9	5.9	6.3	6.7	7.1	7.1
57.5°	4.6	5.0	5.0	5.4	5.4	5.9	5.9	6.3
60°	4.2	4.6	4.6	4.6	5.0	5.0	5.0	5.0
61°	4.2	4.2	4.2	4.6	4.6	4.2	4.6	4.2
62°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
63°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
64°	3.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.9
66°	3.3	3.3	2.9	3.3	2.9	2.9	2.9	2.9



TEST NUMBER: P1212064

CATALOG NUMBER: LDSQA4A10927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	2.1	2.1	2.1	2.1	2.1	1.7	1.7	1.7
75°	2.1	2.1	2.1	1.7	1.7	1.7	1.7	1.3
77.5°	1.7	1.7	1.7	1.7	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3	1.3	0.8	0.8
82.5°	1.3	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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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Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.3
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.3	1.3

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67.5°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.3	1.7	1.7	2.1
70°	1.3	1.7	1.7	1.7	1.7	1.7	1.7	1.3	1.7	1.7	1.7

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67.5°	2.1	2.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
70°	2.1	2.5	2.5	2.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9

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67.5°	2.9	2.9	2.9	2.9	2.9	2.5	2.5	2.5
70°	2.5	2.5	2.5	2.5	2.5	2.1	2.1	2.1

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(END OF REPORT)