

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: P1212176

Luminaire Tested: **LDSQA4A20927D010TE LAR15SP 4LSQA1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212176
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: LDSQA4A20927D010TE 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

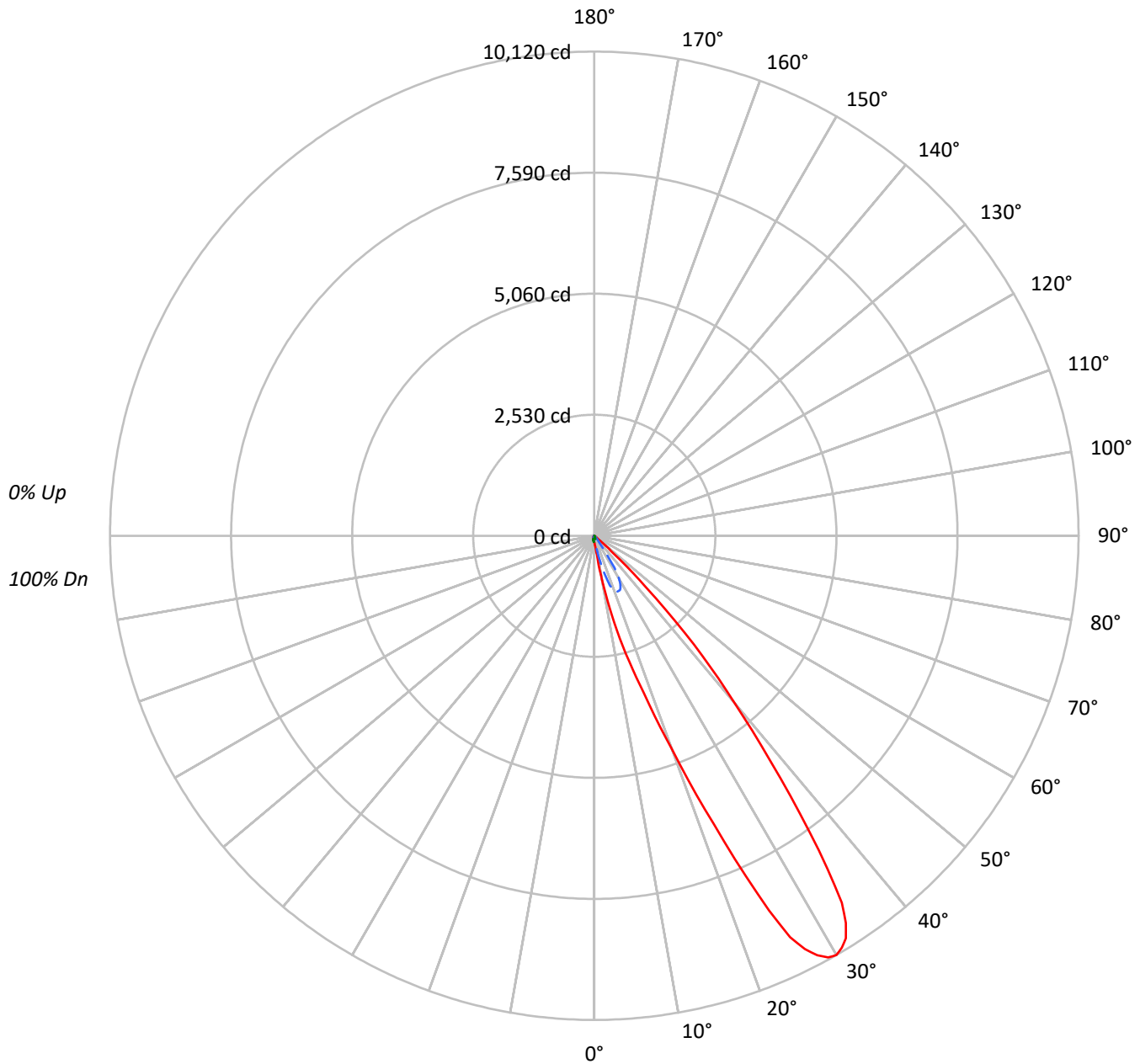
Lumens per Lamp: N/A
Luminaire Lumens: 1556.2 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	13001	13001	13001
5°	21647	12272	10473
10°	92300	10752	9080
15°	255486	8545	8054
20°	490041	6041	7206
25°	923959	4040	6360
30°	1132000	2707	5571
35°	1005354	1809	4754
40°	572986	1227	3958
45°	209011	1000	3315
50°	22999	723	2788
55°	3395	540	2297
60°	794	620	1879
65°	550	734	1284
70°	453	906	1161
75°	599	1198	898
80°	0	1785	893
85°	0	2668	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	1.1
10°-20°	168.6	10.8
20°-30°	553.9	35.6
30°-40°	607.4	39.0
40°-50°	189.7	12.2
50°-60°	10.4	0.7
60°-70°	4.2	0.3
70°-80°	3.2	0.2
80°-90°	2.0	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°	739.4	47.5
0°-40°	1346.8	86.5
0°-60°	1546.9	99.4
0°-90°	1556.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1556.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	134	134	134	134	134	
5°	223	178	126	112	108	41
15°	2547	819	85	76	80	800
25°	8644	1257	38	47	60	3853
35°	8501	247	15	27	40	4970
45°	1526	26	7	15	24	1401
55°	20	5	3	9	14	31
65°	2	2	3	6	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°	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2
2.5°	165.4	167.1	167.8	163.9	164.7	163.0	164.7	161.5	155.9	157.4	152.6
5°	222.6	219.4	218.5	212.1	210.5	207.3	207.3	200.0	189.6	188.0	178.4
7.5°	393.6	376.8	362.3	340.6	319.7	303.7	297.2	271.5	243.4	233.0	210.5
10°	938.3	935.0	899.0	830.6	751.9	695.0	661.9	562.3	436.2	359.1	278.7
12.5°	1707.9	1691.8	1640.4	1515.0	1379.4	1294.2	1227.5	1026.7	839.5	689.3	494.1
15°	2547.4	2482.2	2406.8	2212.4	2022.0	1911.1	1816.4	1575.4	1285.4	1069.2	818.6
17.5°	3444.0	3472.9	3289.6	2954.6	2616.4	2443.0	2282.2	1911.9	1594.6	1369.7	1087.8
20°	4753.4	4692.2	4370.2	3815.0	3316.2	3026.2	2798.0	2263.8	1785.0	1504.6	1237.9
22.5°	6523.1	6328.7	5700.5	4761.4	3970.1	3567.6	3243.8	2524.1	1944.9	1573.8	1262.1
25°	8644.0	8463.9	7300.7	5671.5	4501.1	3979.8	3539.5	2689.5	2009.2	1585.0	1257.3
26°	9336.4	9068.9	7891.2	5995.3	4664.2	4084.2	3612.6	2721.7	2010.7	1576.2	1236.3
27°	9694.6	9485.0	8379.6	6258.0	4775.9	4150.0	3653.6	2729.8	1994.7	1556.1	1204.2
28°	9930.9	9734.8	8688.9	6429.9	4832.9	4175.7	3665.6	2712.1	1958.6	1520.7	1153.6
29°	10077.1	9870.6	8839.9	6507.8	4837.0	4164.5	3643.1	2665.5	1909.5	1478.2	1094.9
30°	10119.6	9896.3	8843.9	6475.7	4777.4	4104.2	3579.7	2590.0	1850.1	1424.3	1029.9
31°	10044.1	9813.5	8698.6	6329.5	4655.4	3987.0	3480.1	2490.4	1776.2	1367.3	929.4
32°	9918.8	9612.7	8394.1	6086.9	4488.2	3845.6	3355.5	2381.9	1697.5	1295.0	788.1
33°	9652.2	9282.6	7928.2	5782.4	4287.4	3683.3	3210.2	2261.4	1622.7	1170.4	585.6
34°	9251.2	8784.5	7357.0	5428.2	4060.1	3480.9	3043.0	2149.8	1544.8	1005.8	400.8
35°	8501.0	8066.3	6726.4	5050.6	3815.0	3284.8	2859.0	2003.6	1438.7	806.6	247.4
36°	7661.4	7341.7	6115.0	4666.6	3564.4	3081.6	2669.4	1895.9	1282.1	593.6	167.8
37°	6803.4	6519.8	5538.2	4289.0	3313.0	2856.6	2476.6	1773.8	1095.8	396.0	135.0
38°	5986.5	5761.5	4990.3	3917.9	3051.8	2621.3	2274.2	1643.6	894.9	254.7	110.9
39°	5236.2	5067.5	4453.7	3558.8	2790.0	2390.7	2079.9	1479.7	682.9	181.6	92.3
40°	4530.9	4411.9	3936.4	3204.6	2529.7	2164.2	1903.9	1281.3	473.9	143.8	74.6
42.5°	3081.6	3051.8	2769.9	2306.4	1879.0	1665.4	1505.5	720.6	182.3	86.7	41.8
45°	1525.6	1546.4	1433.9	1319.0	1229.9	1164.8	948.8	300.5	101.2	47.4	25.7
47.5°	539.8	540.7	465.1	414.6	396.0	394.5	286.8	106.1	53.8	28.9	18.5
50°	152.6	164.7	155.0	158.3	123.8	105.3	86.0	51.4	27.4	18.5	12.1
51°	94.0	101.2	94.7	98.0	85.2	76.3	64.2	38.6	21.8	15.3	11.2
52°	60.2	64.2	61.0	61.9	57.0	49.8	43.4	28.1	17.7	12.9	9.7
53°	41.0	43.4	41.0	41.0	37.8	35.4	30.6	20.9	14.5	10.4	7.3
54°	28.1	28.9	28.9	28.9	26.6	24.9	21.8	16.0	12.1	9.7	6.5
55°	20.1	20.9	20.1	20.1	19.2	17.7	16.0	12.1	9.7	8.0	4.8
57.5°	8.8	8.8	8.8	9.7	8.8	8.8	8.0	7.3	6.5	4.8	3.2
60°	4.1	4.1	4.1	4.1	4.8	4.8	4.8	4.8	4.1	3.2	3.2
61°	3.2	3.2	3.2	3.2	3.2	4.1	4.1	4.1	3.2	3.2	2.4
62°	2.4	2.4	2.4	2.4	3.2	3.2	3.2	3.2	3.2	2.4	2.4
63°	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2	2.4	2.4	2.4
64°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
65°	2.4	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4
66°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4
77.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6	1.6	2.4
80°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6	1.6	2.4
82.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6	1.6	2.4
85°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6	1.6	2.4
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6	1.6	2.4
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°	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2
2.5°	149.4	148.6	144.6	140.6	141.4	139.8	138.2	135.7	134.2	130.1	130.1
5°	170.3	166.3	157.4	149.4	148.6	145.4	140.6	135.7	131.8	126.2	124.5
7.5°	194.4	183.1	168.7	155.9	153.4	148.6	139.8	133.4	126.2	118.9	116.5
10°	228.9	202.5	177.5	158.3	153.4	146.2	135.0	126.2	118.1	109.3	106.1
12.5°	351.8	249.8	188.8	158.3	149.4	140.6	126.9	116.5	106.8	97.3	94.0
15°	586.5	399.3	239.4	158.3	142.2	131.8	114.9	104.4	94.0	85.2	81.9
17.5°	809.8	567.9	333.4	178.4	143.0	121.3	100.5	89.1	80.3	71.4	69.0
20°	939.1	661.9	395.2	198.4	141.4	109.3	86.0	73.9	65.1	58.6	56.2
22.5°	956.0	666.0	381.6	177.5	118.9	90.8	71.4	60.2	53.0	47.4	45.8
25°	911.0	588.0	305.3	126.2	88.4	73.9	56.2	48.2	42.6	37.8	37.0
26°	876.4	541.4	265.9	104.4	77.9	65.8	50.6	43.4	38.6	34.6	33.7
27°	827.4	491.6	227.4	86.7	69.0	59.5	45.0	39.3	35.4	31.3	31.3
28°	772.0	437.8	183.1	73.1	61.9	53.0	41.0	35.4	31.3	28.9	28.9
29°	705.4	359.9	134.2	63.4	54.6	46.6	36.2	31.3	28.1	26.6	26.6
30°	606.6	261.0	92.3	55.4	47.4	41.0	32.2	28.1	25.7	24.2	24.2
31°	473.9	160.6	72.3	48.2	41.8	36.2	28.9	24.9	23.3	21.8	22.5
32°	323.0	100.5	61.9	41.8	37.0	31.3	25.7	22.5	20.9	20.1	20.1
33°	184.0	83.5	53.8	36.2	31.3	27.4	22.5	20.1	19.2	18.5	18.5
34°	122.1	71.4	46.6	30.6	25.7	23.3	19.2	17.7	16.9	16.9	16.9
35°	102.9	61.9	37.8	25.7	22.5	20.1	16.9	16.0	15.3	15.3	16.0
36°	86.7	51.4	30.6	21.8	19.2	17.7	15.3	14.5	13.6	13.6	14.5
37°	73.1	41.0	25.7	18.5	16.0	15.3	13.6	12.9	12.9	12.9	13.6
38°	59.5	33.0	21.8	16.0	14.5	12.9	12.1	11.2	11.2	12.1	12.9
39°	46.6	26.6	17.7	13.6	12.1	11.2	10.4	10.4	10.4	10.4	11.2
40°	37.0	22.5	15.3	12.1	10.4	10.4	9.7	8.8	9.7	9.7	11.2
42.5°	23.3	16.0	11.2	8.8	8.0	8.0	7.3	7.3	7.3	8.0	8.8
45°	16.9	12.9	8.8	7.3	6.5	5.6	5.6	5.6	6.5	7.3	8.0
47.5°	12.9	8.8	6.5	4.8	4.1	4.1	4.1	4.1	4.8	5.6	6.5
50°	8.8	5.6	4.1	3.2	3.2	3.2	3.2	3.2	4.1	4.8	5.6
51°	7.3	4.8	4.1	3.2	3.2	2.4	2.4	3.2	4.1	4.1	4.8
52°	5.6	4.1	3.2	2.4	2.4	2.4	2.4	3.2	3.2	4.1	4.8
53°	4.8	4.1	3.2	2.4	2.4	2.4	2.4	2.4	3.2	4.1	4.8
54°	4.1	3.2	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.1	4.8
55°	3.2	3.2	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2	4.1
57.5°	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.1
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.1
61°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.1
62°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.1
63°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2	4.1
64°	2.4	2.4	2.4	2.4	3.2	3.2	2.4	2.4	3.2	3.2	4.1
65°	2.4	2.4	3.2	3.2	3.2	3.2	2.4	2.4	3.2	3.2	4.1
66°	2.4	3.2	3.2	3.2	3.2	3.2	2.4	2.4	3.2	3.2	4.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	2.4	3.2	3.2	3.2
75°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	2.4	2.4	3.2	3.2
80°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	2.4	2.4	3.2	3.2
82.5°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	2.4	2.4	2.4	3.2
85°	2.4	2.4	3.2	3.2	3.2	3.2	3.2	2.4	2.4	2.4	2.4
87.5°	2.4	2.4	3.2	3.2	3.2	3.2	2.4	2.4	2.4	2.4	2.4
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: LDSQA4A20927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2
2.5°	128.6	126.2	124.5	123.8	124.5	123.0	120.6	121.3	120.6	119.7	119.7
5°	122.1	118.1	116.5	115.7	115.7	114.9	111.7	112.4	111.7	110.9	110.9
7.5°	113.3	110.0	107.7	106.8	106.8	106.1	102.9	104.4	102.9	102.0	102.9
10°	102.9	99.6	98.8	97.3	97.3	96.4	94.0	94.7	94.0	94.0	94.0
12.5°	91.6	88.4	87.6	86.7	87.6	86.7	84.3	86.0	85.2	85.2	86.0
15°	79.5	77.2	77.2	76.3	77.2	76.3	75.5	76.3	76.3	76.3	77.9
17.5°	67.5	65.8	65.8	65.1	65.8	65.8	65.1	67.5	67.5	69.0	70.7
20°	55.4	53.8	54.6	54.6	56.2	56.2	56.2	58.6	59.5	61.0	63.4
22.5°	45.8	45.0	45.8	45.8	47.4	48.2	48.2	50.6	53.0	54.6	57.0
25°	37.0	37.0	38.6	38.6	39.3	41.0	41.8	45.0	46.6	48.2	50.6
26°	34.6	34.6	35.4	36.2	37.0	38.6	39.3	42.6	44.2	45.8	48.2
27°	31.3	31.3	33.0	33.7	34.6	36.2	37.8	40.2	41.8	44.2	45.8
28°	28.9	28.9	30.6	31.3	32.2	34.6	35.4	37.8	39.3	41.8	44.2
29°	26.6	27.4	28.9	28.9	30.6	32.2	33.0	36.2	37.8	39.3	41.8
30°	24.9	25.7	26.6	27.4	28.1	29.8	31.3	33.7	35.4	37.0	39.3
31°	23.3	24.2	24.9	25.7	26.6	28.1	29.8	32.2	33.7	35.4	37.8
32°	21.8	21.8	23.3	24.2	24.9	26.6	28.1	30.6	32.2	33.7	36.2
33°	20.1	20.9	21.8	22.5	23.3	24.9	26.6	28.1	29.8	32.2	34.6
34°	18.5	19.2	20.9	21.8	22.5	24.2	24.9	26.6	28.1	30.6	32.2
35°	16.9	18.5	19.2	20.1	20.9	22.5	23.3	25.7	26.6	28.9	30.6
36°	16.0	16.9	18.5	19.2	20.1	20.9	21.8	24.2	25.7	27.4	28.9
37°	14.5	16.0	16.9	17.7	18.5	20.1	20.9	22.5	24.2	25.7	27.4
38°	13.6	14.5	16.0	16.9	17.7	18.5	19.2	21.8	22.5	24.2	25.7
39°	12.9	13.6	15.3	16.0	16.0	17.7	18.5	20.1	20.9	22.5	24.9
40°	12.1	12.9	14.5	14.5	15.3	16.9	17.7	19.2	20.1	21.8	23.3
42.5°	10.4	11.2	12.1	12.9	13.6	14.5	15.3	16.9	17.7	18.5	20.1
45°	8.8	9.7	11.2	11.2	12.1	12.9	13.6	14.5	15.3	16.9	17.7
47.5°	7.3	8.8	9.7	10.4	10.4	11.2	12.1	12.9	13.6	14.5	15.3
50°	6.5	7.3	8.0	8.8	8.8	9.7	10.4	11.2	11.2	12.1	13.6
51°	6.5	7.3	8.0	8.0	8.8	9.7	9.7	10.4	11.2	11.2	12.1
52°	5.6	6.5	7.3	8.0	8.0	8.8	9.7	9.7	10.4	11.2	12.1
53°	5.6	6.5	7.3	7.3	8.0	8.8	8.8	9.7	9.7	10.4	11.2
54°	5.6	6.5	7.3	7.3	8.0	8.0	8.8	8.8	9.7	9.7	10.4
55°	4.8	5.6	6.5	7.3	7.3	8.0	8.0	8.8	8.8	9.7	9.7
57.5°	4.8	5.6	6.5	6.5	6.5	7.3	7.3	8.0	8.0	8.0	8.8
60°	4.8	5.6	5.6	6.5	6.5	7.3	7.3	7.3	7.3	8.0	8.0
61°	4.8	4.8	5.6	6.5	6.5	6.5	7.3	7.3	7.3	7.3	8.0
62°	4.8	4.8	5.6	5.6	6.5	6.5	6.5	7.3	7.3	7.3	7.3
63°	4.1	4.8	5.6	5.6	6.5	6.5	6.5	6.5	6.5	7.3	7.3
64°	4.1	4.8	5.6	5.6	5.6	6.5	6.5	6.5	6.5	6.5	6.5
65°	4.1	4.8	5.6	5.6	5.6	6.5	6.5	6.5	6.5	6.5	6.5
66°	4.1	4.8	5.6	5.6	5.6	6.5	6.5	6.5	6.5	6.5	6.5



TEST NUMBER: P1212176

CATALOG NUMBER: LDSQA4A20927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	4.1	4.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	4.1	4.1	4.1	4.8	4.8	4.8	4.8	4.8	4.8	4.1	4.1
77.5°	3.2	3.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.2
80°	3.2	3.2	4.1	4.1	4.1	4.1	4.1	4.1	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.4	2.4
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.4	2.4	1.6
87.5°	2.4	3.2	3.2	3.2	3.2	3.2	2.4	2.4	2.4	1.6	1.6
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: P1212176

CATALOG NUMBER: LDSQA4A20927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2
2.5°	120.6	118.1	117.3	117.3	118.1	117.3	118.1	117.3
5°	110.9	108.5	108.5	107.7	108.5	107.7	108.5	107.7
7.5°	102.9	100.5	100.5	100.5	100.5	100.5	101.2	100.5
10°	94.7	92.3	92.3	91.6	92.3	92.3	93.2	92.3
12.5°	86.7	85.2	85.2	84.3	86.0	85.2	86.7	86.0
15°	79.5	77.9	77.9	78.7	79.5	79.5	80.3	80.3
17.5°	72.3	72.3	72.3	73.1	73.9	74.6	75.5	74.6
20°	65.8	65.8	66.6	67.5	68.3	69.0	69.9	69.9
22.5°	59.5	59.5	60.2	61.9	63.4	64.2	65.1	65.1
25°	53.0	53.8	54.6	55.4	57.8	58.6	59.5	59.5
26°	50.6	51.4	53.0	53.8	55.4	56.2	57.8	57.8
27°	49.0	49.8	50.6	51.4	53.8	54.6	56.2	55.4
28°	46.6	47.4	48.2	49.8	51.4	53.0	53.8	53.8
29°	44.2	45.8	46.6	47.4	49.8	50.6	51.4	51.4
30°	42.6	43.4	44.2	45.8	47.4	49.0	49.8	49.8
31°	40.2	41.8	42.6	43.4	45.8	46.6	48.2	48.2
32°	38.6	39.3	40.2	41.8	43.4	45.0	45.8	45.8
33°	36.2	37.8	38.6	39.3	41.8	43.4	44.2	43.4
34°	34.6	36.2	36.2	37.8	39.3	41.0	41.8	41.8
35°	33.0	33.7	34.6	36.2	37.8	39.3	40.2	40.2
36°	31.3	32.2	33.0	34.6	36.2	37.8	38.6	38.6
37°	29.8	30.6	31.3	32.2	34.6	36.2	37.0	37.0
38°	28.1	28.9	29.8	31.3	33.0	33.7	35.4	35.4
39°	26.6	27.4	28.1	29.8	31.3	32.2	33.7	33.0
40°	24.9	26.6	26.6	28.1	29.8	30.6	32.2	31.3
42.5°	21.8	22.5	23.3	24.2	25.7	27.4	28.1	28.1
45°	19.2	20.1	20.9	21.8	22.5	23.3	24.9	24.2
47.5°	16.0	16.9	17.7	18.5	19.2	20.1	20.9	20.9
50°	14.5	14.5	15.3	15.3	16.9	17.7	18.5	18.5
51°	12.9	13.6	14.5	14.5	16.0	16.0	16.9	16.9
52°	12.9	12.9	13.6	13.6	14.5	15.3	16.0	16.0
53°	12.1	12.1	12.9	12.9	13.6	14.5	15.3	15.3
54°	11.2	11.2	12.1	12.1	12.9	13.6	14.5	14.5
55°	10.4	10.4	11.2	11.2	12.1	12.9	13.6	13.6
57.5°	8.8	9.7	9.7	10.4	10.4	11.2	11.2	12.1
60°	8.0	8.8	8.8	8.8	9.7	9.7	9.7	9.7
61°	8.0	8.0	8.0	8.8	8.8	8.0	8.8	8.0
62°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
63°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
64°	7.3	6.5	6.5	6.5	6.5	6.5	6.5	6.5
65°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.6
66°	6.5	6.5	5.6	6.5	5.6	5.6	5.6	5.6

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212176

CATALOG NUMBER: LDSQA4A20927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	4.1	4.1	4.1	4.1	4.1	3.2	3.2	3.2
75°	4.1	4.1	4.1	3.2	3.2	3.2	3.2	2.4
77.5°	3.2	3.2	3.2	3.2	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6
82.5°	2.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	1.6	1.6	1.6	1.6	1.6	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

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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Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4

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67.5°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	2.4	3.2	3.2	4.1
70°	2.4	3.2	3.2	3.2	3.2	3.2	3.2	2.4	3.2	3.2	3.2

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67.5°	4.1	4.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
70°	4.1	4.8	4.8	4.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6

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Peachtree City, GA 30269

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Peachtree City, GA 30269

Scaled Data Report



67.5°	5.6	5.6	5.6	5.6	5.6	4.8	4.8	4.8
70°	4.8	4.8	4.8	4.8	4.8	4.1	4.1	4.1

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)