

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: P1212288

Luminaire Tested: **LDSQA4A30927D010TE 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: P1212288
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: LDSQA4A30927D010TE 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

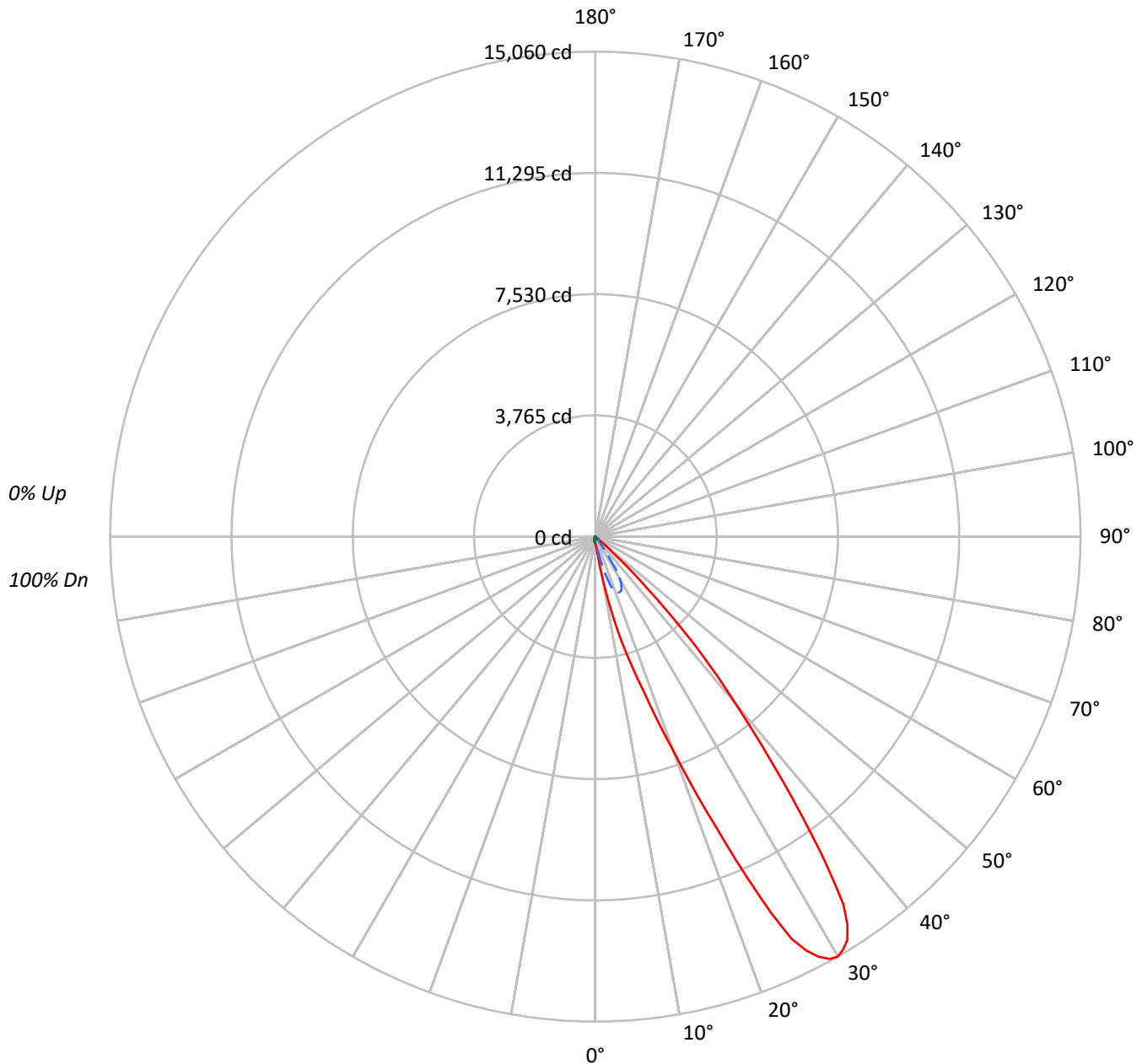
Lumens per Lamp: N/A
Luminaire Lumens: 2315.9 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	99	92	86	81	97	90	85	80	87	83	79		85	81	78		83
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65
7	76	65	57	52	74	64	57	52	62	56	52		61	56	52		60
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55
9	66	55	48	43	65	54	47	43	53	47	43		52	46	42		51
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19346	19346	19346
5°	32208	18253	15579
10°	137354	15995	13526
15°	380210	12707	11995
20°	729267	8990	10722
25°	1375025	6007	9460
30°	1684655	4005	8289
35°	1496146	2685	7072
40°	852707	1821	5906
45°	311037	1466	4905
50°	34227	1070	4145
55°	5033	794	3429
60°	1163	911	2790
65°	825	1077	1926
70°	680	1331	1699
75°	898	1759	1347
80°	0	2622	1339
85°	0	4001	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.1	1.1
10°-20°	250.9	10.8
20°-30°	824.3	35.6
30°-40°	903.9	39.0
40°-50°	282.3	12.2
50°-60°	15.5	0.7
60°-70°	6.2	0.3
70°-80°	4.7	0.2
80°-90°	2.9	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°	1100.3	47.5
0°-40°	2004.2	86.5
0°-60°	2302.0	99.4
0°-90°	2315.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2315.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	200	200	200	200	200	
5°	331	265	188	166	160	62
15°	3791	1218	127	114	120	1191
25°	12864	1871	56	69	88	5734
35°	12651	368	23	39	60	7396
45°	2270	38	11	23	36	2084
55°	30	7	5	13	20	47
65°	4	4	5	10	8	3
75°	2	4	5	7	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°	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7
2.5°	246.2	248.7	249.8	243.9	245.1	242.7	245.1	240.4	231.9	234.4	227.1
5°	331.2	326.3	325.2	315.6	313.2	308.5	308.5	297.6	282.2	279.8	265.4
7.5°	585.8	560.7	539.2	506.9	475.8	451.9	442.4	404.1	362.3	346.7	313.2
10°	1396.3	1391.6	1337.8	1236.2	1119.0	1034.2	985.1	836.9	649.2	534.4	414.8
12.5°	2541.7	2517.8	2441.3	2254.8	2052.8	1926.0	1826.8	1527.9	1249.3	1025.8	735.3
15°	3791.0	3694.2	3581.8	3292.5	3009.2	2844.2	2703.1	2344.4	1912.9	1591.3	1218.3
17.5°	5125.2	5168.3	4895.7	4397.2	3893.9	3635.5	3396.4	2845.3	2373.1	2038.4	1618.7
20°	7073.9	6983.1	6503.7	5677.6	4935.2	4503.5	4164.0	3369.0	2656.5	2239.2	1842.4
22.5°	9707.7	9418.3	8483.5	7085.9	5908.3	5309.3	4827.6	3756.3	2894.4	2342.0	1878.2
25°	12863.9	12596.1	10864.9	8440.4	6698.5	5922.7	5267.5	4002.6	2990.0	2358.8	1871.1
26°	13894.4	13496.3	11743.6	8922.3	6941.3	6078.0	5376.3	4050.5	2992.4	2345.7	1839.9
27°	14427.6	14115.6	12470.6	9313.1	7107.4	6176.1	5437.2	4062.3	2968.5	2315.7	1792.1
28°	14779.2	14487.4	12930.8	9569.0	7192.3	6214.3	5455.2	4036.1	2914.7	2263.2	1716.8
29°	14996.7	14689.4	13155.6	9685.0	7198.2	6197.6	5421.7	3966.8	2841.7	2199.8	1629.5
30°	15060.1	14727.7	13161.6	9637.1	7109.8	6108.0	5327.3	3854.4	2753.2	2119.7	1532.6
31°	14947.6	14604.6	12945.2	9419.6	6928.0	5933.4	5179.0	3706.2	2643.3	2034.8	1383.2
32°	14761.2	14305.7	12492.0	9058.5	6679.4	5723.0	4993.7	3544.7	2526.1	1927.2	1172.8
33°	14364.2	13814.4	11798.7	8605.4	6380.5	5481.5	4777.3	3365.4	2414.9	1741.9	871.6
34°	13767.7	13073.1	10948.7	8078.1	6042.2	5180.3	4528.7	3199.3	2299.0	1496.8	596.5
35°	12651.0	12004.3	10010.1	7516.3	5677.6	4888.5	4254.9	2981.6	2141.2	1200.3	368.3
36°	11401.7	10926.0	9100.3	6944.9	5304.6	4586.0	3972.7	2821.5	1908.0	883.5	249.8
37°	10124.9	9702.9	8242.0	6382.9	4930.3	4251.3	3685.8	2639.7	1630.7	589.4	200.8
38°	8909.0	8574.3	7426.6	5830.6	4541.8	3901.0	3384.6	2446.0	1331.8	379.0	165.0
39°	7792.5	7541.4	6628.0	5296.2	4152.1	3557.9	3095.2	2202.1	1016.2	270.2	137.5
40°	6742.8	6565.9	5858.0	4768.9	3764.7	3220.7	2833.4	1906.9	705.3	214.0	111.2
42.5°	4586.0	4541.8	4122.1	3432.4	2796.3	2478.3	2240.5	1072.4	271.4	129.2	62.1
45°	2270.3	2301.4	2134.0	1963.0	1830.4	1733.5	1411.9	447.1	150.6	70.5	38.3
47.5°	803.4	804.6	692.2	616.9	589.4	587.0	426.8	157.9	80.1	43.1	27.5
50°	227.1	245.1	230.7	235.5	184.1	156.6	127.9	76.5	40.7	27.5	18.0
51°	139.9	150.6	141.0	145.9	126.7	113.6	95.6	57.4	32.3	22.7	16.7
52°	89.6	95.6	90.9	92.1	84.9	74.1	64.5	41.8	26.3	19.1	14.4
53°	61.0	64.5	61.0	61.0	56.2	52.7	45.4	31.1	21.5	15.6	10.7
54°	41.8	43.1	43.1	43.1	39.4	37.1	32.3	24.0	18.0	14.4	9.6
55°	29.8	31.1	29.8	29.8	28.7	26.3	24.0	18.0	14.4	12.0	7.1
57.5°	13.1	13.1	13.1	14.4	13.1	13.1	12.0	10.7	9.6	7.1	4.7
60°	6.0	6.0	6.0	6.0	7.1	7.1	7.1	7.1	6.0	4.7	4.7
61°	4.7	4.7	4.7	4.7	4.7	6.0	6.0	6.0	4.7	4.7	3.6
62°	3.6	3.6	3.6	3.6	4.7	4.7	4.7	4.7	4.7	3.6	3.6
63°	3.6	3.6	3.6	3.6	3.6	3.6	4.7	4.7	3.6	3.6	3.6
64°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	3.6	2.4	2.4	2.4	2.4	3.6	3.6	3.6	3.6	3.6	3.6
66°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6
77.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4	2.4	3.6
80°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4	2.4	3.6
82.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4	2.4	3.6
85°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4	2.4	3.6
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	2.4	2.4	3.6
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°	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7
2.5°	222.4	221.1	215.2	209.2	210.4	208.0	205.7	202.0	199.7	193.7	193.7
5°	253.5	247.5	234.4	222.4	221.1	216.4	209.2	202.0	196.1	187.7	185.3
7.5°	289.3	272.6	251.1	231.9	228.4	221.1	208.0	198.4	187.7	177.0	173.3
10°	340.7	301.3	264.2	235.5	228.4	217.6	200.8	187.7	175.7	162.6	157.9
12.5°	523.6	371.8	280.9	235.5	222.4	209.2	188.9	173.3	159.0	144.6	139.9
15°	872.7	594.2	356.3	235.5	211.6	196.1	171.0	155.4	139.9	126.7	121.9
17.5°	1205.1	845.2	496.2	265.4	212.8	180.6	149.4	132.7	119.6	106.4	102.8
20°	1397.6	985.1	588.2	295.3	210.4	162.6	127.9	109.9	96.8	87.2	83.7
22.5°	1422.7	991.1	567.8	264.2	177.0	135.1	106.4	89.6	78.9	70.5	68.1
25°	1355.8	875.1	454.3	187.7	131.5	109.9	83.7	71.8	63.4	56.2	55.0
26°	1304.4	805.8	395.7	155.4	115.9	98.1	75.4	64.5	57.4	51.4	50.2
27°	1231.4	731.7	338.3	129.2	102.8	88.5	66.9	58.5	52.7	46.7	46.7
28°	1148.9	651.6	272.6	108.8	92.1	78.9	61.0	52.7	46.7	43.1	43.1
29°	1049.7	535.6	199.7	94.5	81.2	69.4	53.8	46.7	41.8	39.4	39.4
30°	902.6	388.5	137.5	82.5	70.5	61.0	47.8	41.8	38.3	35.8	35.8
31°	705.3	239.1	107.6	71.8	62.1	53.8	43.1	37.1	34.7	32.3	33.4
32°	480.6	149.4	92.1	62.1	55.0	46.7	38.3	33.4	31.1	29.8	29.8
33°	273.8	124.3	80.1	53.8	46.7	40.7	33.4	29.8	28.7	27.5	27.5
34°	181.7	106.4	69.4	45.4	38.3	34.7	28.7	26.3	25.1	25.1	25.1
35°	153.0	92.1	56.2	38.3	33.4	29.8	25.1	24.0	22.7	22.7	24.0
36°	129.2	76.5	45.4	32.3	28.7	26.3	22.7	21.5	20.3	20.3	21.5
37°	108.8	61.0	38.3	27.5	24.0	22.7	20.3	19.1	19.1	19.1	20.3
38°	88.5	49.0	32.3	24.0	21.5	19.1	18.0	16.7	16.7	18.0	19.1
39°	69.4	39.4	26.3	20.3	18.0	16.7	15.6	15.6	15.6	15.6	16.7
40°	55.0	33.4	22.7	18.0	15.6	15.6	14.4	13.1	14.4	14.4	16.7
42.5°	34.7	24.0	16.7	13.1	12.0	12.0	10.7	10.7	10.7	12.0	13.1
45°	25.1	19.1	13.1	10.7	9.6	8.4	8.4	8.4	9.6	10.7	12.0
47.5°	19.1	13.1	9.6	7.1	6.0	6.0	6.0	6.0	7.1	8.4	9.6
50°	13.1	8.4	6.0	4.7	4.7	4.7	4.7	4.7	6.0	7.1	8.4
51°	10.7	7.1	6.0	4.7	4.7	3.6	3.6	4.7	6.0	6.0	7.1
52°	8.4	6.0	4.7	3.6	3.6	3.6	3.6	4.7	4.7	6.0	7.1
53°	7.1	6.0	4.7	3.6	3.6	3.6	3.6	3.6	4.7	6.0	7.1
54°	6.0	4.7	3.6	3.6	3.6	3.6	3.6	3.6	4.7	6.0	7.1
55°	4.7	4.7	3.6	3.6	3.6	3.6	3.6	3.6	4.7	4.7	6.0
57.5°	4.7	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.7	6.0
60°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.7	6.0
61°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.7	6.0
62°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.7	6.0
63°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.7	4.7	6.0
64°	3.6	3.6	3.6	3.6	4.7	4.7	3.6	3.6	4.7	4.7	6.0
65°	3.6	3.6	4.7	4.7	4.7	4.7	3.6	3.6	4.7	4.7	6.0
66°	3.6	4.7	4.7	4.7	4.7	4.7	3.6	3.6	4.7	4.7	6.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	3.6	4.7	4.7	4.7	4.7	4.7	4.7	3.6	4.7	4.7	4.7
75°	3.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
77.5°	3.6	4.7	4.7	4.7	4.7	4.7	4.7	3.6	3.6	4.7	4.7
80°	3.6	4.7	4.7	4.7	4.7	4.7	4.7	3.6	3.6	4.7	4.7
82.5°	3.6	4.7	4.7	4.7	4.7	4.7	4.7	3.6	3.6	3.6	4.7
85°	3.6	3.6	4.7	4.7	4.7	4.7	4.7	3.6	3.6	3.6	3.6
87.5°	3.6	3.6	4.7	4.7	4.7	4.7	3.6	3.6	3.6	3.6	3.6
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°	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7
2.5°	191.3	187.7	185.3	184.1	185.3	182.9	179.3	180.6	179.3	178.1	178.1
5°	181.7	175.7	173.3	172.2	172.2	171.0	166.2	167.4	166.2	165.0	165.0
7.5°	168.6	163.7	160.2	159.0	159.0	157.9	153.0	155.4	153.0	151.9	153.0
10°	153.0	148.3	147.0	144.6	144.6	143.5	139.9	141.0	139.9	139.9	139.9
12.5°	136.3	131.5	130.3	129.2	130.3	129.2	125.5	127.9	126.7	126.7	127.9
15°	118.3	114.8	114.8	113.6	114.8	113.6	112.4	113.6	113.6	113.6	115.9
17.5°	100.5	98.1	98.1	96.8	98.1	98.1	96.8	100.5	100.5	102.8	105.2
20°	82.5	80.1	81.2	81.2	83.7	83.7	83.7	87.2	88.5	90.9	94.5
22.5°	68.1	66.9	68.1	68.1	70.5	71.8	71.8	75.4	78.9	81.2	84.9
25°	55.0	55.0	57.4	57.4	58.5	61.0	62.1	66.9	69.4	71.8	75.4
26°	51.4	51.4	52.7	53.8	55.0	57.4	58.5	63.4	65.8	68.1	71.8
27°	46.7	46.7	49.0	50.2	51.4	53.8	56.2	59.8	62.1	65.8	68.1
28°	43.1	43.1	45.4	46.7	47.8	51.4	52.7	56.2	58.5	62.1	65.8
29°	39.4	40.7	43.1	43.1	45.4	47.8	49.0	53.8	56.2	58.5	62.1
30°	37.1	38.3	39.4	40.7	41.8	44.2	46.7	50.2	52.7	55.0	58.5
31°	34.7	35.8	37.1	38.3	39.4	41.8	44.2	47.8	50.2	52.7	56.2
32°	32.3	32.3	34.7	35.8	37.1	39.4	41.8	45.4	47.8	50.2	53.8
33°	29.8	31.1	32.3	33.4	34.7	37.1	39.4	41.8	44.2	47.8	51.4
34°	27.5	28.7	31.1	32.3	33.4	35.8	37.1	39.4	41.8	45.4	47.8
35°	25.1	27.5	28.7	29.8	31.1	33.4	34.7	38.3	39.4	43.1	45.4
36°	24.0	25.1	27.5	28.7	29.8	31.1	32.3	35.8	38.3	40.7	43.1
37°	21.5	24.0	25.1	26.3	27.5	29.8	31.1	33.4	35.8	38.3	40.7
38°	20.3	21.5	24.0	25.1	26.3	27.5	28.7	32.3	33.4	35.8	38.3
39°	19.1	20.3	22.7	24.0	24.0	26.3	27.5	29.8	31.1	33.4	37.1
40°	18.0	19.1	21.5	21.5	22.7	25.1	26.3	28.7	29.8	32.3	34.7
42.5°	15.6	16.7	18.0	19.1	20.3	21.5	22.7	25.1	26.3	27.5	29.8
45°	13.1	14.4	16.7	16.7	18.0	19.1	20.3	21.5	22.7	25.1	26.3
47.5°	10.7	13.1	14.4	15.6	15.6	16.7	18.0	19.1	20.3	21.5	22.7
50°	9.6	10.7	12.0	13.1	13.1	14.4	15.6	16.7	16.7	18.0	20.3
51°	9.6	10.7	12.0	12.0	13.1	14.4	14.4	15.6	16.7	16.7	18.0
52°	8.4	9.6	10.7	12.0	12.0	13.1	14.4	14.4	15.6	16.7	18.0
53°	8.4	9.6	10.7	10.7	12.0	13.1	13.1	14.4	14.4	15.6	16.7
54°	8.4	9.6	10.7	10.7	12.0	12.0	13.1	13.1	14.4	14.4	15.6
55°	7.1	8.4	9.6	10.7	10.7	12.0	12.0	13.1	13.1	14.4	14.4
57.5°	7.1	8.4	9.6	9.6	9.6	10.7	10.7	12.0	12.0	12.0	13.1
60°	7.1	8.4	8.4	9.6	9.6	10.7	10.7	10.7	10.7	12.0	12.0
61°	7.1	7.1	8.4	9.6	9.6	9.6	10.7	10.7	10.7	10.7	12.0
62°	7.1	7.1	8.4	8.4	9.6	9.6	9.6	10.7	10.7	10.7	10.7
63°	6.0	7.1	8.4	8.4	9.6	9.6	9.6	9.6	9.6	10.7	10.7
64°	6.0	7.1	8.4	8.4	8.4	9.6	9.6	9.6	9.6	9.6	9.6
65°	6.0	7.1	8.4	8.4	8.4	9.6	9.6	9.6	9.6	9.6	9.6
66°	6.0	7.1	8.4	8.4	8.4	9.6	9.6	9.6	9.6	9.6	9.6



TEST NUMBER: P1212288

CATALOG NUMBER: LDSQA4A30927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	6.0	6.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
75°	6.0	6.0	6.0	7.1	7.1	7.1	7.1	7.1	7.1	6.0	6.0
77.5°	4.7	4.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	4.7
80°	4.7	4.7	6.0	6.0	6.0	6.0	6.0	6.0	4.7	4.7	4.7
82.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	3.6	3.6
85°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	3.6	3.6	2.4
87.5°	3.6	4.7	4.7	4.7	4.7	4.7	3.6	3.6	3.6	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

Cooper Lighting Solutions Photometric Lab

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TEST NUMBER: P1212288

CATALOG NUMBER: LDSQA4A30927D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7
2.5°	179.3	175.7	174.6	174.6	175.7	174.6	175.7	174.6
5°	165.0	161.4	161.4	160.2	161.4	160.2	161.4	160.2
7.5°	153.0	149.4	149.4	149.4	149.4	149.4	150.6	149.4
10°	141.0	137.5	137.5	136.3	137.5	137.5	138.7	137.5
12.5°	129.2	126.7	126.7	125.5	127.9	126.7	129.2	127.9
15°	118.3	115.9	115.9	117.2	118.3	118.3	119.6	119.6
17.5°	107.6	107.6	107.6	108.8	109.9	111.2	112.4	111.2
20°	98.1	98.1	99.2	100.5	101.6	102.8	104.0	104.0
22.5°	88.5	88.5	89.6	92.1	94.5	95.6	96.8	96.8
25°	78.9	80.1	81.2	82.5	86.1	87.2	88.5	88.5
26°	75.4	76.5	78.9	80.1	82.5	83.7	86.1	86.1
27°	72.9	74.1	75.4	76.5	80.1	81.2	83.7	82.5
28°	69.4	70.5	71.8	74.1	76.5	78.9	80.1	80.1
29°	65.8	68.1	69.4	70.5	74.1	75.4	76.5	76.5
30°	63.4	64.5	65.8	68.1	70.5	72.9	74.1	74.1
31°	59.8	62.1	63.4	64.5	68.1	69.4	71.8	71.8
32°	57.4	58.5	59.8	62.1	64.5	66.9	68.1	68.1
33°	53.8	56.2	57.4	58.5	62.1	64.5	65.8	64.5
34°	51.4	53.8	53.8	56.2	58.5	61.0	62.1	62.1
35°	49.0	50.2	51.4	53.8	56.2	58.5	59.8	59.8
36°	46.7	47.8	49.0	51.4	53.8	56.2	57.4	57.4
37°	44.2	45.4	46.7	47.8	51.4	53.8	55.0	55.0
38°	41.8	43.1	44.2	46.7	49.0	50.2	52.7	52.7
39°	39.4	40.7	41.8	44.2	46.7	47.8	50.2	49.0
40°	37.1	39.4	39.4	41.8	44.2	45.4	47.8	46.7
42.5°	32.3	33.4	34.7	35.8	38.3	40.7	41.8	41.8
45°	28.7	29.8	31.1	32.3	33.4	34.7	37.1	35.8
47.5°	24.0	25.1	26.3	27.5	28.7	29.8	31.1	31.1
50°	21.5	21.5	22.7	22.7	25.1	26.3	27.5	27.5
51°	19.1	20.3	21.5	21.5	24.0	24.0	25.1	25.1
52°	19.1	19.1	20.3	20.3	21.5	22.7	24.0	24.0
53°	18.0	18.0	19.1	19.1	20.3	21.5	22.7	22.7
54°	16.7	16.7	18.0	18.0	19.1	20.3	21.5	21.5
55°	15.6	15.6	16.7	16.7	18.0	19.1	20.3	20.3
57.5°	13.1	14.4	14.4	15.6	15.6	16.7	16.7	18.0
60°	12.0	13.1	13.1	13.1	14.4	14.4	14.4	14.4
61°	12.0	12.0	12.0	13.1	13.1	12.0	13.1	12.0
62°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
63°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
64°	10.7	9.6	9.6	9.6	9.6	9.6	9.6	9.6
65°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	8.4
66°	9.6	9.6	8.4	9.6	8.4	8.4	8.4	8.4

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	6.0	6.0	6.0	6.0	6.0	4.7	4.7	4.7
75°	6.0	6.0	6.0	4.7	4.7	4.7	4.7	3.6
77.5°	4.7	4.7	4.7	4.7	3.6	3.6	3.6	3.6
80°	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4
82.5°	3.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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

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Peachtree City, GA 30269



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— 0°-180° - - 45°-225° - - - 90°-270°

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67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6

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67.5°	3.6	4.7	4.7	4.7	4.7	4.7	4.7	3.6	4.7	4.7	6.0
70°	3.6	4.7	4.7	4.7	4.7	4.7	4.7	3.6	4.7	4.7	4.7

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67.5°	6.0	7.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
70°	6.0	7.1	7.1	7.1	8.4	8.4	8.4	8.4	8.4	8.4	8.4

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67.5°	8.4	8.4	8.4	8.4	8.4	7.1	7.1	7.1
70°	7.1	7.1	7.1	7.1	7.1	6.0	6.0	6.0

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(END OF REPORT)