

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: P1219487

Luminaire Tested: **LDSQA4A15935D010TE LAR15SP 4LSQA1H 30°**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219487
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: LDSQA4A15935D010TE 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

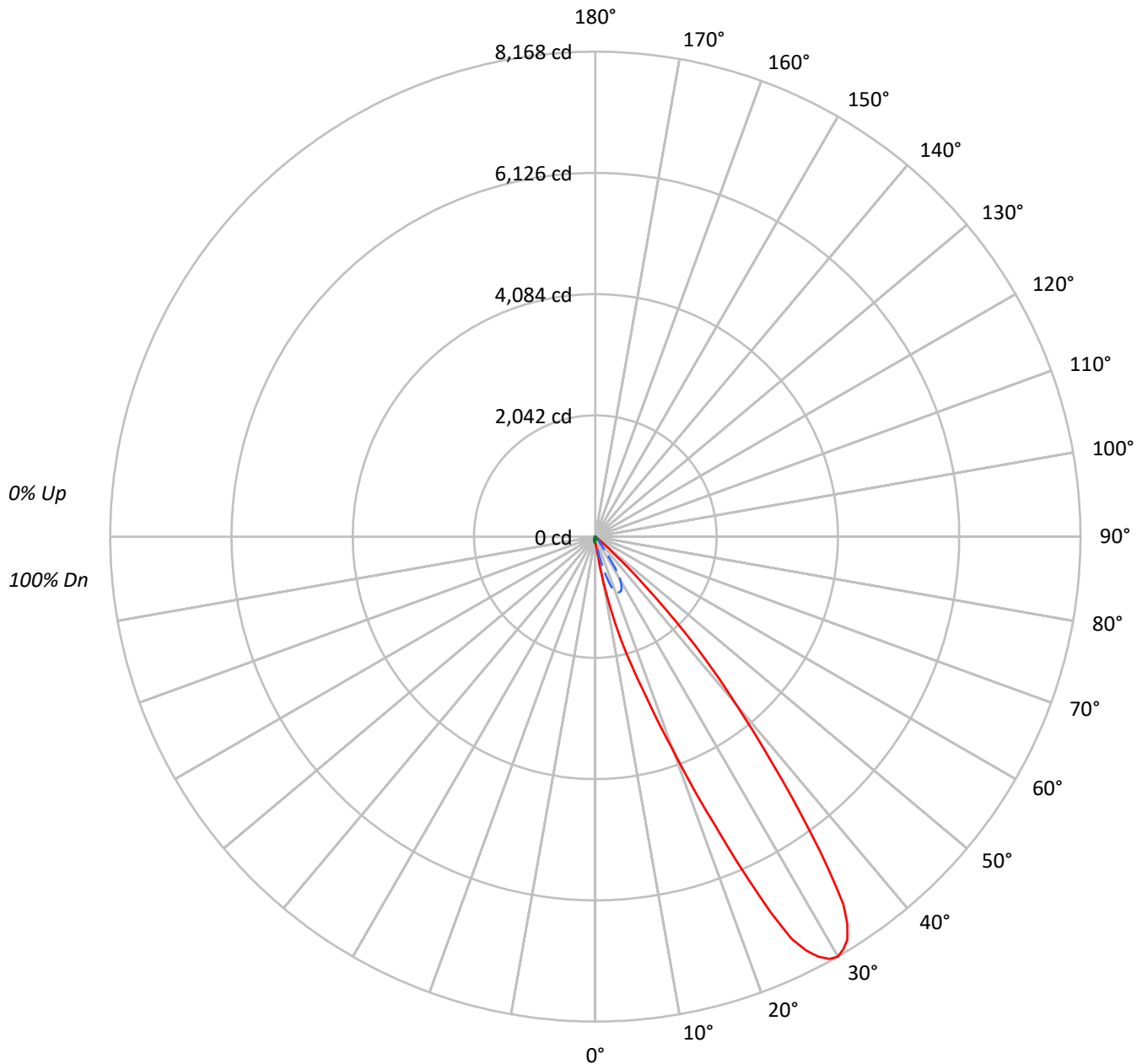
Lumens per Lamp: N/A
Luminaire Lumens: 1256.1 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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

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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°	10492	10492	10492
5°	17465	9900	8451
10°	74505	8676	7329
15°	206202	6890	6499
20°	395515	4876	5814
25°	745741	3260	5131
30°	913667	2170	4497
35°	811438	1455	3832
40°	462471	986	3187
45°	168691	795	2658
50°	18568	588	2246
55°	2736	439	1858
60°	639	504	1511
65°	458	596	1054
70°	368	736	935
75°	487	973	749
80°	0	1450	725
85°	0	2223	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	1.1
10°-20°	136.1	10.8
20°-30°	447.0	35.6
30°-40°	490.2	39.0
40°-50°	153.1	12.2
50°-60°	8.4	0.7
60°-70°	3.4	0.3
70°-80°	2.6	0.2
80°-90°	1.6	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°	596.8	47.5
0°-40°	1087.0	86.5
0°-60°	1248.5	99.4
0°-90°	1256.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1256.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	108	108	108	108	108	
5°	180	144	102	90	87	33
15°	2056	661	69	62	65	646
25°	6977	1015	30	38	48	3110
35°	6861	200	12	21	32	4011
45°	1231	21	6	12	19	1130
55°	16	4	3	7	11	25
65°	2	2	3	5	5	2
75°	1	2	3	4	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°	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3
2.5°	133.6	134.8	135.5	132.3	133.0	131.7	133.0	130.3	125.8	127.1	123.2
5°	179.6	177.0	176.3	171.2	169.9	167.3	167.3	161.5	153.1	151.8	143.9
7.5°	317.7	304.1	292.4	274.9	258.1	245.1	239.9	219.2	196.4	188.0	169.9
10°	757.4	754.8	725.6	670.4	606.9	560.8	534.3	453.9	352.0	289.9	225.0
12.5°	1378.5	1365.5	1324.0	1222.8	1113.3	1044.5	990.8	828.6	677.6	556.3	398.8
15°	2056.0	2003.6	1942.6	1785.7	1632.0	1542.5	1466.0	1271.5	1037.4	863.0	660.7
17.5°	2779.6	2803.0	2655.2	2384.8	2111.8	1971.8	1842.1	1543.2	1287.1	1105.5	877.9
20°	3836.5	3787.2	3527.3	3079.2	2676.6	2442.5	2258.4	1827.1	1440.7	1214.4	999.2
22.5°	5264.9	5108.0	4601.0	3843.0	3204.3	2879.5	2618.3	2037.2	1569.7	1270.2	1018.6
25°	6976.7	6831.5	5892.6	4577.7	3632.9	3212.2	2856.8	2170.8	1621.6	1279.3	1014.8
26°	7535.6	7319.7	6369.2	4838.9	3764.6	3296.4	2915.8	2196.7	1622.9	1272.2	997.9
27°	7824.8	7655.6	6763.4	5051.0	3854.7	3349.6	2948.9	2203.2	1609.9	1255.9	972.0
28°	8015.4	7857.2	7013.1	5189.8	3900.7	3370.4	2958.6	2189.0	1580.7	1227.4	931.1
29°	8133.4	7966.8	7134.9	5252.6	3904.0	3361.2	2940.5	2151.4	1541.2	1193.0	883.8
30°	8167.8	7987.5	7138.2	5226.7	3856.0	3312.6	2889.2	2090.4	1493.2	1149.6	831.2
31°	8106.8	7920.8	7020.8	5108.7	3757.4	3218.0	2808.8	2010.0	1433.6	1103.6	750.2
32°	8005.7	7758.6	6775.1	4912.9	3622.6	3103.8	2708.3	1922.5	1370.1	1045.2	636.1
33°	7790.4	7492.2	6399.0	4667.2	3460.4	2972.9	2590.9	1825.3	1309.8	944.8	472.7
34°	7466.9	7090.2	5938.0	4381.1	3277.0	2809.5	2456.1	1735.1	1246.9	811.8	323.5
35°	6861.3	6510.5	5429.0	4076.4	3079.2	2651.3	2307.6	1617.1	1161.3	651.0	199.7
36°	6183.7	5925.6	4935.5	3766.6	2876.9	2487.3	2154.6	1530.2	1034.8	479.2	135.5
37°	5491.2	5262.3	4470.0	3461.7	2674.0	2305.7	1999.0	1431.6	884.4	319.7	108.9
38°	4831.8	4650.2	4027.8	3162.3	2463.2	2115.7	1835.6	1326.6	722.3	205.5	89.5
39°	4226.2	4090.1	3594.7	2872.4	2251.9	1929.6	1678.6	1194.3	551.1	146.5	74.5
40°	3657.0	3560.9	3177.1	2586.5	2041.8	1746.8	1536.7	1034.2	382.5	116.0	60.3
42.5°	2487.3	2463.2	2235.6	1861.5	1516.6	1344.1	1215.1	581.6	147.2	70.0	33.8
45°	1231.3	1248.2	1157.4	1064.6	992.7	940.2	765.8	242.5	81.7	38.2	20.8
47.5°	435.7	436.4	375.4	334.6	319.7	318.4	231.5	85.6	43.5	23.4	14.9
50°	123.2	133.0	125.1	127.7	99.9	84.9	69.4	41.5	22.1	14.9	9.7
51°	75.8	81.7	76.5	79.1	68.7	61.6	51.9	31.1	17.5	12.3	9.1
52°	48.6	51.9	49.3	49.9	46.0	40.2	35.0	22.7	14.3	10.4	7.8
53°	33.1	35.0	33.1	33.1	30.5	28.5	24.7	16.8	11.7	8.4	5.8
54°	22.7	23.4	23.4	23.4	21.4	20.1	17.5	13.0	9.7	7.8	5.1
55°	16.2	16.8	16.2	16.2	15.5	14.3	13.0	9.7	7.8	6.4	3.9
57.5°	7.1	7.1	7.1	7.8	7.1	7.1	6.4	5.8	5.1	3.9	2.6
60°	3.3	3.3	3.3	3.3	3.9	3.9	3.9	3.9	3.3	2.6	2.6
61°	2.6	2.6	2.6	2.6	2.6	3.3	3.3	3.3	2.6	2.6	2.0
62°	2.0	2.0	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.0	2.0
63°	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.6	2.0	2.0	2.0
64°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
65°	2.0	1.3	1.3	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.0
66°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0
77.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	2.0
80°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	2.0
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	2.0
85°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	2.0
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.3	1.3	2.0
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°	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3
2.5°	120.6	120.0	116.7	113.5	114.1	112.9	111.6	109.6	108.3	105.0	105.0
5°	137.4	134.2	127.1	120.6	120.0	117.3	113.5	109.6	106.3	101.8	100.5
7.5°	156.9	147.8	136.1	125.8	123.8	120.0	112.9	107.6	101.8	95.9	94.0
10°	184.8	163.4	143.3	127.7	123.8	118.0	108.9	101.8	95.3	88.2	85.6
12.5°	284.0	201.7	152.4	127.7	120.6	113.5	102.5	94.0	86.2	78.4	75.8
15°	473.3	322.2	193.2	127.7	114.7	106.3	92.8	84.2	75.8	68.7	66.1
17.5°	653.6	458.4	269.1	143.9	115.4	97.9	81.1	72.0	64.8	57.7	55.7
20°	757.9	534.3	319.0	160.2	114.1	88.2	69.4	59.7	52.6	47.3	45.3
22.5°	771.6	537.5	308.0	143.3	95.9	73.3	57.7	48.6	42.8	38.2	36.9
25°	735.3	474.6	246.4	101.8	71.3	59.7	45.3	38.9	34.4	30.5	29.8
26°	707.4	437.0	214.6	84.2	62.9	53.2	40.9	35.0	31.1	27.9	27.2
27°	667.9	396.8	183.4	70.0	55.7	48.0	36.3	31.8	28.5	25.2	25.2
28°	623.1	353.3	147.8	59.0	49.9	42.8	33.1	28.5	25.2	23.4	23.4
29°	569.2	290.5	108.3	51.2	44.1	37.6	29.2	25.2	22.7	21.4	21.4
30°	489.6	210.8	74.5	44.7	38.2	33.1	25.9	22.7	20.8	19.4	19.4
31°	382.5	129.7	58.3	38.9	33.8	29.2	23.4	20.1	18.8	17.5	18.1
32°	260.7	81.1	49.9	33.8	29.8	25.2	20.8	18.1	16.8	16.2	16.2
33°	148.5	67.4	43.5	29.2	25.2	22.1	18.1	16.2	15.5	14.9	14.9
34°	98.6	57.7	37.6	24.7	20.8	18.8	15.5	14.3	13.7	13.7	13.7
35°	83.0	49.9	30.5	20.8	18.1	16.2	13.7	13.0	12.3	12.3	13.0
36°	70.0	41.5	24.7	17.5	15.5	14.3	12.3	11.7	11.0	11.0	11.7
37°	59.0	33.1	20.8	14.9	13.0	12.3	11.0	10.4	10.4	10.4	11.0
38°	48.0	26.6	17.5	13.0	11.7	10.4	9.7	9.1	9.1	9.7	10.4
39°	37.6	21.4	14.3	11.0	9.7	9.1	8.4	8.4	8.4	8.4	9.1
40°	29.8	18.1	12.3	9.7	8.4	8.4	7.8	7.1	7.8	7.8	9.1
42.5°	18.8	13.0	9.1	7.1	6.4	6.4	5.8	5.8	5.8	6.4	7.1
45°	13.7	10.4	7.1	5.8	5.1	4.6	4.6	4.6	5.1	5.8	6.4
47.5°	10.4	7.1	5.1	3.9	3.3	3.3	3.3	3.3	3.9	4.6	5.1
50°	7.1	4.6	3.3	2.6	2.6	2.6	2.6	2.6	3.3	3.9	4.6
51°	5.8	3.9	3.3	2.6	2.6	2.0	2.0	2.6	3.3	3.3	3.9
52°	4.6	3.3	2.6	2.0	2.0	2.0	2.0	2.6	2.6	3.3	3.9
53°	3.9	3.3	2.6	2.0	2.0	2.0	2.0	2.0	2.6	3.3	3.9
54°	3.3	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.3	3.9
55°	2.6	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.6	3.3
57.5°	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.3
60°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.3
61°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.3
62°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.3
63°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.6	3.3
64°	2.0	2.0	2.0	2.0	2.6	2.6	2.0	2.0	2.6	2.6	3.3
65°	2.0	2.0	2.6	2.6	2.6	2.6	2.0	2.0	2.6	2.6	3.3
66°	2.0	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.6	2.6	3.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.6	2.6	2.6
75°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.6	2.6
80°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.6	2.6
82.5°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.6
85°	2.0	2.0	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.0	2.0
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: P1219487

CATALOG NUMBER: LDSQA4A15935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3
2.5°	103.8	101.8	100.5	99.9	100.5	99.2	97.2	97.9	97.2	96.6	96.6
5°	98.6	95.3	94.0	93.4	93.4	92.8	90.1	90.8	90.1	89.5	89.5
7.5°	91.4	88.8	86.9	86.2	86.2	85.6	83.0	84.2	83.0	82.4	83.0
10°	83.0	80.4	79.8	78.4	78.4	77.8	75.8	76.5	75.8	75.8	75.8
12.5°	74.0	71.3	70.7	70.0	70.7	70.0	68.1	69.4	68.7	68.7	69.4
15°	64.2	62.3	62.3	61.6	62.3	61.6	61.0	61.6	61.6	61.6	62.9
17.5°	54.4	53.2	53.2	52.6	53.2	53.2	52.6	54.4	54.4	55.7	57.0
20°	44.7	43.5	44.1	44.1	45.3	45.3	45.3	47.3	48.0	49.3	51.2
22.5°	36.9	36.3	36.9	36.9	38.2	38.9	38.9	40.9	42.8	44.1	46.0
25°	29.8	29.8	31.1	31.1	31.8	33.1	33.8	36.3	37.6	38.9	40.9
26°	27.9	27.9	28.5	29.2	29.8	31.1	31.8	34.4	35.6	36.9	38.9
27°	25.2	25.2	26.6	27.2	27.9	29.2	30.5	32.4	33.8	35.6	36.9
28°	23.4	23.4	24.7	25.2	25.9	27.9	28.5	30.5	31.8	33.8	35.6
29°	21.4	22.1	23.4	23.4	24.7	25.9	26.6	29.2	30.5	31.8	33.8
30°	20.1	20.8	21.4	22.1	22.7	24.0	25.2	27.2	28.5	29.8	31.8
31°	18.8	19.4	20.1	20.8	21.4	22.7	24.0	25.9	27.2	28.5	30.5
32°	17.5	17.5	18.8	19.4	20.1	21.4	22.7	24.7	25.9	27.2	29.2
33°	16.2	16.8	17.5	18.1	18.8	20.1	21.4	22.7	24.0	25.9	27.9
34°	14.9	15.5	16.8	17.5	18.1	19.4	20.1	21.4	22.7	24.7	25.9
35°	13.7	14.9	15.5	16.2	16.8	18.1	18.8	20.8	21.4	23.4	24.7
36°	13.0	13.7	14.9	15.5	16.2	16.8	17.5	19.4	20.8	22.1	23.4
37°	11.7	13.0	13.7	14.3	14.9	16.2	16.8	18.1	19.4	20.8	22.1
38°	11.0	11.7	13.0	13.7	14.3	14.9	15.5	17.5	18.1	19.4	20.8
39°	10.4	11.0	12.3	13.0	13.0	14.3	14.9	16.2	16.8	18.1	20.1
40°	9.7	10.4	11.7	11.7	12.3	13.7	14.3	15.5	16.2	17.5	18.8
42.5°	8.4	9.1	9.7	10.4	11.0	11.7	12.3	13.7	14.3	14.9	16.2
45°	7.1	7.8	9.1	9.1	9.7	10.4	11.0	11.7	12.3	13.7	14.3
47.5°	5.8	7.1	7.8	8.4	8.4	9.1	9.7	10.4	11.0	11.7	12.3
50°	5.1	5.8	6.4	7.1	7.1	7.8	8.4	9.1	9.1	9.7	11.0
51°	5.1	5.8	6.4	6.4	7.1	7.8	7.8	8.4	9.1	9.1	9.7
52°	4.6	5.1	5.8	6.4	6.4	7.1	7.8	7.8	8.4	9.1	9.7
53°	4.6	5.1	5.8	5.8	6.4	7.1	7.1	7.8	7.8	8.4	9.1
54°	4.6	5.1	5.8	5.8	6.4	6.4	7.1	7.1	7.8	7.8	8.4
55°	3.9	4.6	5.1	5.8	5.8	6.4	6.4	7.1	7.1	7.8	7.8
57.5°	3.9	4.6	5.1	5.1	5.1	5.8	5.8	6.4	6.4	6.4	7.1
60°	3.9	4.6	4.6	5.1	5.1	5.8	5.8	5.8	5.8	6.4	6.4
61°	3.9	3.9	4.6	5.1	5.1	5.1	5.8	5.8	5.8	5.8	6.4
62°	3.9	3.9	4.6	4.6	5.1	5.1	5.1	5.8	5.8	5.8	5.8
63°	3.3	3.9	4.6	4.6	5.1	5.1	5.1	5.1	5.1	5.8	5.8
64°	3.3	3.9	4.6	4.6	4.6	5.1	5.1	5.1	5.1	5.1	5.1
65°	3.3	3.9	4.6	4.6	4.6	5.1	5.1	5.1	5.1	5.1	5.1
66°	3.3	3.9	4.6	4.6	4.6	5.1	5.1	5.1	5.1	5.1	5.1

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219487

CATALOG NUMBER: LDSQA4A15935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	3.3	3.3	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
75°	3.3	3.3	3.3	3.9	3.9	3.9	3.9	3.9	3.9	3.3	3.3
77.5°	2.6	2.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.6
80°	2.6	2.6	3.3	3.3	3.3	3.3	3.3	3.3	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0	1.3
87.5°	2.0	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.0	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

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219487

CATALOG NUMBER: LDSQA4A15935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	108.3	108.3	108.3	108.3	108.3	108.3	108.3	108.3
2.5°	97.2	95.3	94.6	94.6	95.3	94.6	95.3	94.6
5°	89.5	87.5	87.5	86.9	87.5	86.9	87.5	86.9
7.5°	83.0	81.1	81.1	81.1	81.1	81.1	81.7	81.1
10°	76.5	74.5	74.5	74.0	74.5	74.5	75.2	74.5
12.5°	70.0	68.7	68.7	68.1	69.4	68.7	70.0	69.4
15°	64.2	62.9	62.9	63.6	64.2	64.2	64.8	64.8
17.5°	58.3	58.3	58.3	59.0	59.7	60.3	61.0	60.3
20°	53.2	53.2	53.9	54.4	55.1	55.7	56.4	56.4
22.5°	48.0	48.0	48.6	49.9	51.2	51.9	52.6	52.6
25°	42.8	43.5	44.1	44.7	46.7	47.3	48.0	48.0
26°	40.9	41.5	42.8	43.5	44.7	45.3	46.7	46.7
27°	39.6	40.2	40.9	41.5	43.5	44.1	45.3	44.7
28°	37.6	38.2	38.9	40.2	41.5	42.8	43.5	43.5
29°	35.6	36.9	37.6	38.2	40.2	40.9	41.5	41.5
30°	34.4	35.0	35.6	36.9	38.2	39.6	40.2	40.2
31°	32.4	33.8	34.4	35.0	36.9	37.6	38.9	38.9
32°	31.1	31.8	32.4	33.8	35.0	36.3	36.9	36.9
33°	29.2	30.5	31.1	31.8	33.8	35.0	35.6	35.0
34°	27.9	29.2	29.2	30.5	31.8	33.1	33.8	33.8
35°	26.6	27.2	27.9	29.2	30.5	31.8	32.4	32.4
36°	25.2	25.9	26.6	27.9	29.2	30.5	31.1	31.1
37°	24.0	24.7	25.2	25.9	27.9	29.2	29.8	29.8
38°	22.7	23.4	24.0	25.2	26.6	27.2	28.5	28.5
39°	21.4	22.1	22.7	24.0	25.2	25.9	27.2	26.6
40°	20.1	21.4	21.4	22.7	24.0	24.7	25.9	25.2
42.5°	17.5	18.1	18.8	19.4	20.8	22.1	22.7	22.7
45°	15.5	16.2	16.8	17.5	18.1	18.8	20.1	19.4
47.5°	13.0	13.7	14.3	14.9	15.5	16.2	16.8	16.8
50°	11.7	11.7	12.3	12.3	13.7	14.3	14.9	14.9
51°	10.4	11.0	11.7	11.7	13.0	13.0	13.7	13.7
52°	10.4	10.4	11.0	11.0	11.7	12.3	13.0	13.0
53°	9.7	9.7	10.4	10.4	11.0	11.7	12.3	12.3
54°	9.1	9.1	9.7	9.7	10.4	11.0	11.7	11.7
55°	8.4	8.4	9.1	9.1	9.7	10.4	11.0	11.0
57.5°	7.1	7.8	7.8	8.4	8.4	9.1	9.1	9.7
60°	6.4	7.1	7.1	7.1	7.8	7.8	7.8	7.8
61°	6.4	6.4	6.4	7.1	7.1	6.4	7.1	6.4
62°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
63°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
64°	5.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1
65°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.6
66°	5.1	5.1	4.6	5.1	4.6	4.6	4.6	4.6



TEST NUMBER: P1219487

CATALOG NUMBER: LDSQA4A15935D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	3.3	3.3	3.3	3.3	3.3	2.6	2.6	2.6
75°	3.3	3.3	3.3	2.6	2.6	2.6	2.6	2.0
77.5°	2.6	2.6	2.6	2.6	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	1.3	1.3
82.5°	2.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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

Scaled Data Report



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Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

Scaled Data Report





67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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Peachtree City, GA 30269

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67.5°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.6	2.6	3.3
70°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.6	2.6	2.6

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Peachtree City, GA 30269

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67.5°	3.3	3.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
70°	3.3	3.9	3.9	3.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6

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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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67.5°	4.6	4.6	4.6	4.6	4.6	3.9	3.9	3.9
70°	3.9	3.9	3.9	3.9	3.9	3.3	3.3	3.3

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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)