

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: P1212218

Luminaire Tested: **LDSQA4A20940D010TE 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: P1212218
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: LDSQA4A20940D010TE 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 / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

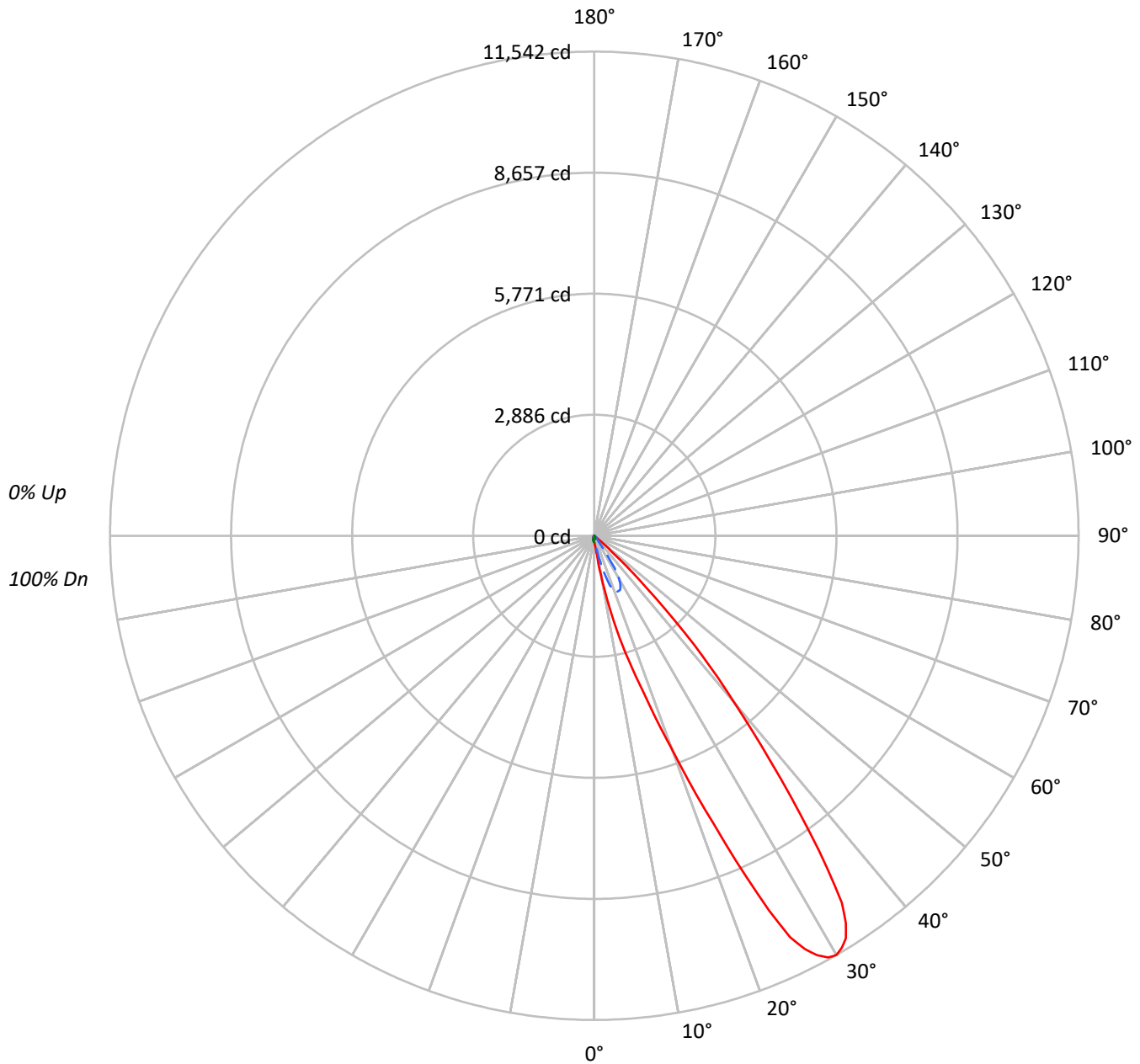
Lumens per Lamp: N/A
Luminaire Lumens: 1774.9 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	14822	14822	14822
5°	24681	13984	11942
10°	105275	12257	10368
15°	291391	9738	9187
20°	558907	6897	8216
25°	1053809	4596	7247
30°	1291101	3065	6354
35°	1146643	2058	5416
40°	653517	1391	4527
45°	238371	1123	3754
50°	26239	829	3180
55°	3868	625	2635
60°	891	717	2131
65°	619	848	1490
70°	510	1048	1303
75°	674	1385	1011
80°	0	2064	1004
85°	0	3001	1112

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	1.1
10°-20°	192.3	10.8
20°-30°	631.7	35.6
30°-40°	692.8	39.0
40°-50°	216.4	12.2
50°-60°	11.8	0.7
60°-70°	4.8	0.3
70°-80°	3.6	0.2
80°-90°	2.3	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°	843.3	47.5
0°-40°	1536.0	86.5
0°-60°	1764.3	99.4
0°-90°	1774.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1774.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	153	153	153	153	153	
5°	254	203	144	127	123	47
15°	2905	934	97	87	92	913
25°	9859	1434	43	53	68	4395
35°	9696	282	17	30	46	5669
45°	1740	29	8	17	27	1597
55°	23	6	4	10	16	36
65°	3	3	4	7	6	2
75°	2	3	4	6	3	1
85°	0	3	3	3	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°	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0
2.5°	188.8	190.6	191.4	186.9	187.8	185.9	187.8	184.2	177.8	179.6	174.1
5°	253.8	250.2	249.2	241.9	240.0	236.4	236.4	228.2	216.2	214.5	203.4
7.5°	449.0	429.8	413.2	388.5	364.6	346.3	339.0	309.7	277.6	265.8	240.0
10°	1070.2	1066.6	1025.2	947.4	857.6	792.6	755.0	641.4	497.5	409.5	317.9
12.5°	1947.9	1929.6	1871.0	1728.1	1573.2	1476.1	1400.1	1171.0	957.5	786.2	563.4
15°	2905.4	2831.2	2745.1	2523.4	2306.2	2179.8	2071.7	1796.8	1466.0	1219.5	933.6
17.5°	3928.0	3961.0	3752.0	3369.9	2984.2	2786.2	2603.0	2180.6	1818.7	1562.2	1240.6
20°	5421.4	5351.8	4984.4	4351.3	3782.2	3451.4	3191.2	2582.0	2035.9	1716.1	1411.9
22.5°	7439.9	7218.2	6501.7	5430.6	4528.1	4069.0	3699.8	2878.8	2218.2	1795.0	1439.4
25°	9858.8	9653.6	8326.9	6468.7	5133.8	4539.0	4037.0	3067.6	2291.5	1807.8	1433.9
26°	10648.6	10343.5	9000.2	6837.9	5319.7	4658.2	4120.4	3104.2	2293.4	1797.6	1410.2
27°	11057.3	10818.1	9557.4	7137.5	5447.1	4733.4	4167.0	3113.4	2275.0	1774.8	1373.4
28°	11326.6	11103.0	9910.2	7333.7	5512.1	4762.7	4180.8	3093.3	2233.8	1734.4	1315.7
29°	11493.4	11257.9	10082.4	7422.5	5516.6	4749.8	4155.2	3040.2	2177.8	1685.8	1248.8
30°	11541.9	11287.2	10087.0	7385.8	5448.9	4681.1	4082.8	2954.0	2110.2	1624.5	1174.6
31°	11455.8	11192.9	9921.1	7219.0	5309.6	4547.3	3969.1	2840.3	2025.8	1559.5	1060.1
32°	11312.9	10963.8	9573.8	6942.4	5119.1	4386.1	3827.2	2716.7	1936.1	1477.0	898.9
33°	11008.7	10587.2	9042.4	6595.2	4890.0	4201.0	3661.4	2579.2	1850.8	1335.0	668.0
34°	10551.5	10019.1	8391.0	6191.1	4630.7	3970.1	3470.7	2451.9	1762.0	1147.1	457.2
35°	9695.7	9200.1	7671.8	5760.5	4351.3	3746.5	3261.0	2285.1	1641.0	919.9	282.2
36°	8738.2	8373.6	6974.5	5322.5	4065.4	3514.7	3044.7	2162.4	1462.3	677.1	191.4
37°	7759.7	7436.2	6316.6	4891.8	3778.6	3258.2	2824.7	2023.1	1249.8	451.7	153.9
38°	6827.9	6571.4	5691.7	4468.6	3480.8	2989.7	2593.8	1874.6	1020.6	290.5	126.5
39°	5972.1	5779.7	5079.7	4059.0	3182.1	2726.8	2372.2	1687.7	778.9	207.0	105.4
40°	5167.7	5032.0	4489.6	3654.9	2885.3	2468.3	2171.5	1461.4	540.6	164.0	85.2
42.5°	3514.7	3480.8	3159.2	2630.6	2143.1	1899.4	1717.0	821.9	208.0	98.9	47.6
45°	1739.9	1763.8	1635.5	1504.5	1402.7	1328.6	1082.1	342.7	115.4	54.1	29.4
47.5°	615.7	616.6	530.5	472.8	451.7	449.9	327.0	121.0	61.4	33.0	21.1
50°	174.1	187.8	176.8	180.6	141.1	120.0	98.1	58.6	31.2	21.1	13.8
51°	107.2	115.4	108.2	111.8	97.1	87.0	73.3	44.0	24.7	17.4	12.8
52°	68.7	73.3	69.7	70.5	65.1	56.8	49.5	32.0	20.2	14.6	11.0
53°	46.7	49.5	46.7	46.7	43.0	40.3	34.9	23.8	16.6	12.0	8.2
54°	32.0	33.0	33.0	33.0	30.2	28.4	24.7	18.3	13.8	11.0	7.3
55°	22.9	23.8	22.9	22.9	21.9	20.2	18.3	13.8	11.0	9.1	5.5
57.5°	10.1	10.1	10.1	11.0	10.1	10.1	9.1	8.2	7.3	5.5	3.7
60°	4.6	4.6	4.6	4.6	5.5	5.5	5.5	5.5	4.6	3.7	3.7
61°	3.7	3.7	3.7	3.7	3.7	4.6	4.6	4.6	3.7	3.7	2.7
62°	2.7	2.7	2.7	2.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7
63°	2.7	2.7	2.7	2.7	2.7	2.7	3.7	3.7	2.7	2.7	2.7
64°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	2.7	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7	2.7	2.7
66°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7
77.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.8	1.8	2.7
80°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.8	1.8	2.7
82.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.8	1.8	2.7
85°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.8	1.8	2.7
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.8	1.8	2.7
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°	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0
2.5°	170.5	169.5	165.0	160.4	161.3	159.4	157.6	154.9	153.0	148.4	148.4
5°	194.2	189.7	179.6	170.5	169.5	165.9	160.4	154.9	150.2	143.8	142.1
7.5°	221.8	209.0	192.4	177.8	175.0	169.5	159.4	152.1	143.8	135.6	132.8
10°	261.1	230.9	202.5	180.6	175.0	166.7	153.9	143.8	134.7	124.6	121.0
12.5°	401.4	285.0	215.3	180.6	170.5	160.4	144.8	132.8	121.9	110.9	107.2
15°	668.8	455.4	273.0	180.6	162.2	150.2	131.0	119.0	107.2	97.1	93.5
17.5°	923.6	647.8	380.2	203.4	163.0	138.3	114.5	101.7	91.6	81.5	78.8
20°	1071.1	755.0	450.9	226.3	161.3	124.6	98.1	84.3	74.2	66.9	64.2
22.5°	1090.3	759.6	435.3	202.5	135.6	103.6	81.5	68.7	60.4	54.1	52.2
25°	1039.0	670.7	348.2	143.8	100.8	84.3	64.2	55.0	48.6	43.0	42.1
26°	999.7	617.5	303.3	119.0	89.0	75.1	57.8	49.5	44.0	39.4	38.5
27°	943.7	560.8	259.3	98.9	78.8	67.8	51.3	45.0	40.3	35.8	35.8
28°	880.5	499.3	209.0	83.4	70.5	60.4	46.7	40.3	35.8	33.0	33.0
29°	804.5	410.5	153.0	72.4	62.3	53.1	41.2	35.8	32.0	30.2	30.2
30°	691.8	297.8	105.4	63.2	54.1	46.7	36.6	32.0	29.4	27.4	27.4
31°	540.6	183.3	82.5	55.0	47.6	41.2	33.0	28.4	26.6	24.7	25.7
32°	368.4	114.5	70.5	47.6	42.1	35.8	29.4	25.7	23.8	22.9	22.9
33°	209.8	95.3	61.4	41.2	35.8	31.2	25.7	22.9	21.9	21.1	21.1
34°	139.3	81.5	53.1	34.9	29.4	26.6	21.9	20.2	19.2	19.2	19.2
35°	117.3	70.5	43.0	29.4	25.7	22.9	19.2	18.3	17.4	17.4	18.3
36°	98.9	58.6	34.9	24.7	21.9	20.2	17.4	16.6	15.6	15.6	16.6
37°	83.4	46.7	29.4	21.1	18.3	17.4	15.6	14.6	14.6	14.6	15.6
38°	67.8	37.5	24.7	18.3	16.6	14.6	13.8	12.8	12.8	13.8	14.6
39°	53.1	30.2	20.2	15.6	13.8	12.8	12.0	12.0	12.0	12.0	12.8
40°	42.1	25.7	17.4	13.8	12.0	12.0	11.0	10.1	11.0	11.0	12.8
42.5°	26.6	18.3	12.8	10.1	9.1	9.1	8.2	8.2	8.2	9.1	10.1
45°	19.2	14.6	10.1	8.2	7.3	6.5	6.5	6.5	7.3	8.2	9.1
47.5°	14.6	10.1	7.3	5.5	4.6	4.6	4.6	4.6	5.5	6.5	7.3
50°	10.1	6.5	4.6	3.7	3.7	3.7	3.7	3.7	4.6	5.5	6.5
51°	8.2	5.5	4.6	3.7	3.7	2.7	2.7	3.7	4.6	4.6	5.5
52°	6.5	4.6	3.7	2.7	2.7	2.7	2.7	3.7	3.7	4.6	5.5
53°	5.5	4.6	3.7	2.7	2.7	2.7	2.7	2.7	3.7	4.6	5.5
54°	4.6	3.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7	4.6	5.5
55°	3.7	3.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7	3.7	4.6
57.5°	3.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7	4.6
60°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7	4.6
61°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7	4.6
62°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7	4.6
63°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.7	3.7	4.6
64°	2.7	2.7	2.7	2.7	3.7	3.7	2.7	2.7	3.7	3.7	4.6
65°	2.7	2.7	3.7	3.7	3.7	3.7	2.7	2.7	3.7	3.7	4.6
66°	2.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	3.7	3.7	4.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	3.7	3.7	3.7
75°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
77.5°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	3.7	3.7
80°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	3.7	3.7
82.5°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	2.7	3.7
85°	2.7	2.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	2.7	2.7
87.5°	2.7	2.7	3.7	3.7	3.7	3.7	2.7	2.7	2.7	2.7	2.7
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°	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0
2.5°	146.6	143.8	142.1	141.1	142.1	140.2	137.5	138.3	137.5	136.6	136.6
5°	139.3	134.7	132.8	132.0	132.0	131.0	127.4	128.2	127.4	126.5	126.5
7.5°	129.2	125.5	122.8	121.9	121.9	121.0	117.3	119.0	117.3	116.4	117.3
10°	117.3	113.6	112.7	110.9	110.9	109.9	107.2	108.2	107.2	107.2	107.2
12.5°	104.4	100.8	99.8	98.9	99.8	98.9	96.2	98.1	97.1	97.1	98.1
15°	90.7	88.0	88.0	87.0	88.0	87.0	86.1	87.0	87.0	87.0	89.0
17.5°	77.0	75.1	75.1	74.2	75.1	75.1	74.2	77.0	77.0	78.8	80.6
20°	63.2	61.4	62.3	62.3	64.2	64.2	64.2	66.9	67.8	69.7	72.4
22.5°	52.2	51.3	52.2	52.2	54.1	55.0	55.0	57.8	60.4	62.3	65.1
25°	42.1	42.1	44.0	44.0	45.0	46.7	47.6	51.3	53.1	55.0	57.8
26°	39.4	39.4	40.3	41.2	42.1	44.0	45.0	48.6	50.4	52.2	55.0
27°	35.8	35.8	37.5	38.5	39.4	41.2	43.0	45.8	47.6	50.4	52.2
28°	33.0	33.0	34.9	35.8	36.6	39.4	40.3	43.0	45.0	47.6	50.4
29°	30.2	31.2	33.0	33.0	34.9	36.6	37.5	41.2	43.0	45.0	47.6
30°	28.4	29.4	30.2	31.2	32.0	33.9	35.8	38.5	40.3	42.1	45.0
31°	26.6	27.4	28.4	29.4	30.2	32.0	33.9	36.6	38.5	40.3	43.0
32°	24.7	24.7	26.6	27.4	28.4	30.2	32.0	34.9	36.6	38.5	41.2
33°	22.9	23.8	24.7	25.7	26.6	28.4	30.2	32.0	33.9	36.6	39.4
34°	21.1	21.9	23.8	24.7	25.7	27.4	28.4	30.2	32.0	34.9	36.6
35°	19.2	21.1	21.9	22.9	23.8	25.7	26.6	29.4	30.2	33.0	34.9
36°	18.3	19.2	21.1	21.9	22.9	23.8	24.7	27.4	29.4	31.2	33.0
37°	16.6	18.3	19.2	20.2	21.1	22.9	23.8	25.7	27.4	29.4	31.2
38°	15.6	16.6	18.3	19.2	20.2	21.1	21.9	24.7	25.7	27.4	29.4
39°	14.6	15.6	17.4	18.3	18.3	20.2	21.1	22.9	23.8	25.7	28.4
40°	13.8	14.6	16.6	16.6	17.4	19.2	20.2	21.9	22.9	24.7	26.6
42.5°	12.0	12.8	13.8	14.6	15.6	16.6	17.4	19.2	20.2	21.1	22.9
45°	10.1	11.0	12.8	12.8	13.8	14.6	15.6	16.6	17.4	19.2	20.2
47.5°	8.2	10.1	11.0	12.0	12.0	12.8	13.8	14.6	15.6	16.6	17.4
50°	7.3	8.2	9.1	10.1	10.1	11.0	12.0	12.8	12.8	13.8	15.6
51°	7.3	8.2	9.1	9.1	10.1	11.0	11.0	12.0	12.8	12.8	13.8
52°	6.5	7.3	8.2	9.1	9.1	10.1	11.0	11.0	12.0	12.8	13.8
53°	6.5	7.3	8.2	8.2	9.1	10.1	10.1	11.0	11.0	12.0	12.8
54°	6.5	7.3	8.2	8.2	9.1	9.1	10.1	10.1	11.0	11.0	12.0
55°	5.5	6.5	7.3	8.2	8.2	9.1	9.1	10.1	10.1	11.0	11.0
57.5°	5.5	6.5	7.3	7.3	7.3	8.2	8.2	9.1	9.1	9.1	10.1
60°	5.5	6.5	6.5	7.3	7.3	8.2	8.2	8.2	8.2	9.1	9.1
61°	5.5	5.5	6.5	7.3	7.3	7.3	8.2	8.2	8.2	8.2	9.1
62°	5.5	5.5	6.5	6.5	7.3	7.3	7.3	8.2	8.2	8.2	8.2
63°	4.6	5.5	6.5	6.5	7.3	7.3	7.3	7.3	7.3	8.2	8.2
64°	4.6	5.5	6.5	6.5	6.5	7.3	7.3	7.3	7.3	7.3	7.3
65°	4.6	5.5	6.5	6.5	6.5	7.3	7.3	7.3	7.3	7.3	7.3
66°	4.6	5.5	6.5	6.5	6.5	7.3	7.3	7.3	7.3	7.3	7.3



TEST NUMBER: P1212218

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	4.6	4.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
75°	4.6	4.6	4.6	5.5	5.5	5.5	5.5	5.5	5.5	4.6	4.6
77.5°	3.7	3.7	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	3.7
80°	3.7	3.7	4.6	4.6	4.6	4.6	4.6	4.6	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	1.8
87.5°	2.7	3.7	3.7	3.7	3.7	3.7	2.7	2.7	2.7	1.8	1.8
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

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TEST NUMBER: P1212218

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0
2.5°	137.5	134.7	133.8	133.8	134.7	133.8	134.7	133.8
5°	126.5	123.7	123.7	122.8	123.7	122.8	123.7	122.8
7.5°	117.3	114.5	114.5	114.5	114.5	114.5	115.4	114.5
10°	108.2	105.4	105.4	104.4	105.4	105.4	106.3	105.4
12.5°	98.9	97.1	97.1	96.2	98.1	97.1	98.9	98.1
15°	90.7	89.0	89.0	89.8	90.7	90.7	91.6	91.6
17.5°	82.5	82.5	82.5	83.4	84.3	85.2	86.1	85.2
20°	75.1	75.1	76.0	77.0	77.9	78.8	79.7	79.7
22.5°	67.8	67.8	68.7	70.5	72.4	73.3	74.2	74.2
25°	60.4	61.4	62.3	63.2	65.9	66.9	67.8	67.8
26°	57.8	58.6	60.4	61.4	63.2	64.2	65.9	65.9
27°	55.8	56.8	57.8	58.6	61.4	62.3	64.2	63.2
28°	53.1	54.1	55.0	56.8	58.6	60.4	61.4	61.4
29°	50.4	52.2	53.1	54.1	56.8	57.8	58.6	58.6
30°	48.6	49.5	50.4	52.2	54.1	55.8	56.8	56.8
31°	45.8	47.6	48.6	49.5	52.2	53.1	55.0	55.0
32°	44.0	45.0	45.8	47.6	49.5	51.3	52.2	52.2
33°	41.2	43.0	44.0	45.0	47.6	49.5	50.4	49.5
34°	39.4	41.2	41.2	43.0	45.0	46.7	47.6	47.6
35°	37.5	38.5	39.4	41.2	43.0	45.0	45.8	45.8
36°	35.8	36.6	37.5	39.4	41.2	43.0	44.0	44.0
37°	33.9	34.9	35.8	36.6	39.4	41.2	42.1	42.1
38°	32.0	33.0	33.9	35.8	37.5	38.5	40.3	40.3
39°	30.2	31.2	32.0	33.9	35.8	36.6	38.5	37.5
40°	28.4	30.2	30.2	32.0	33.9	34.9	36.6	35.8
42.5°	24.7	25.7	26.6	27.4	29.4	31.2	32.0	32.0
45°	21.9	22.9	23.8	24.7	25.7	26.6	28.4	27.4
47.5°	18.3	19.2	20.2	21.1	21.9	22.9	23.8	23.8
50°	16.6	16.6	17.4	17.4	19.2	20.2	21.1	21.1
51°	14.6	15.6	16.6	16.6	18.3	18.3	19.2	19.2
52°	14.6	14.6	15.6	15.6	16.6	17.4	18.3	18.3
53°	13.8	13.8	14.6	14.6	15.6	16.6	17.4	17.4
54°	12.8	12.8	13.8	13.8	14.6	15.6	16.6	16.6
55°	12.0	12.0	12.8	12.8	13.8	14.6	15.6	15.6
57.5°	10.1	11.0	11.0	12.0	12.0	12.8	12.8	13.8
60°	9.1	10.1	10.1	10.1	11.0	11.0	11.0	11.0
61°	9.1	9.1	9.1	10.1	10.1	9.1	10.1	9.1
62°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
63°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
64°	8.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3
65°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.5
66°	7.3	7.3	6.5	7.3	6.5	6.5	6.5	6.5

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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TEST NUMBER: P1212218

CATALOG NUMBER: LDSQA4A20940D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	4.6	4.6	4.6	4.6	4.6	3.7	3.7	3.7
75°	4.6	4.6	4.6	3.7	3.7	3.7	3.7	2.7
77.5°	3.7	3.7	3.7	3.7	2.7	2.7	2.7	2.7
80°	2.7	2.7	2.7	2.7	2.7	2.7	1.8	1.8
82.5°	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	1.8	1.8	1.8	1.8	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report



— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report





67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7

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67.5°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	3.7	3.7	4.6
70°	2.7	3.7	3.7	3.7	3.7	3.7	3.7	2.7	3.7	3.7	3.7

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67.5°	4.6	5.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
70°	4.6	5.5	5.5	5.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5

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67.5°	6.5	6.5	6.5	6.5	6.5	5.5	5.5	5.5
70°	5.5	5.5	5.5	5.5	5.5	4.6	4.6	4.6

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Scaled Data Report



(END OF REPORT)