

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: P1212190

Luminaire Tested: **LDSQA4A20930D010TE 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: P1212190
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: LDSQA4A20930D010TE 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 / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

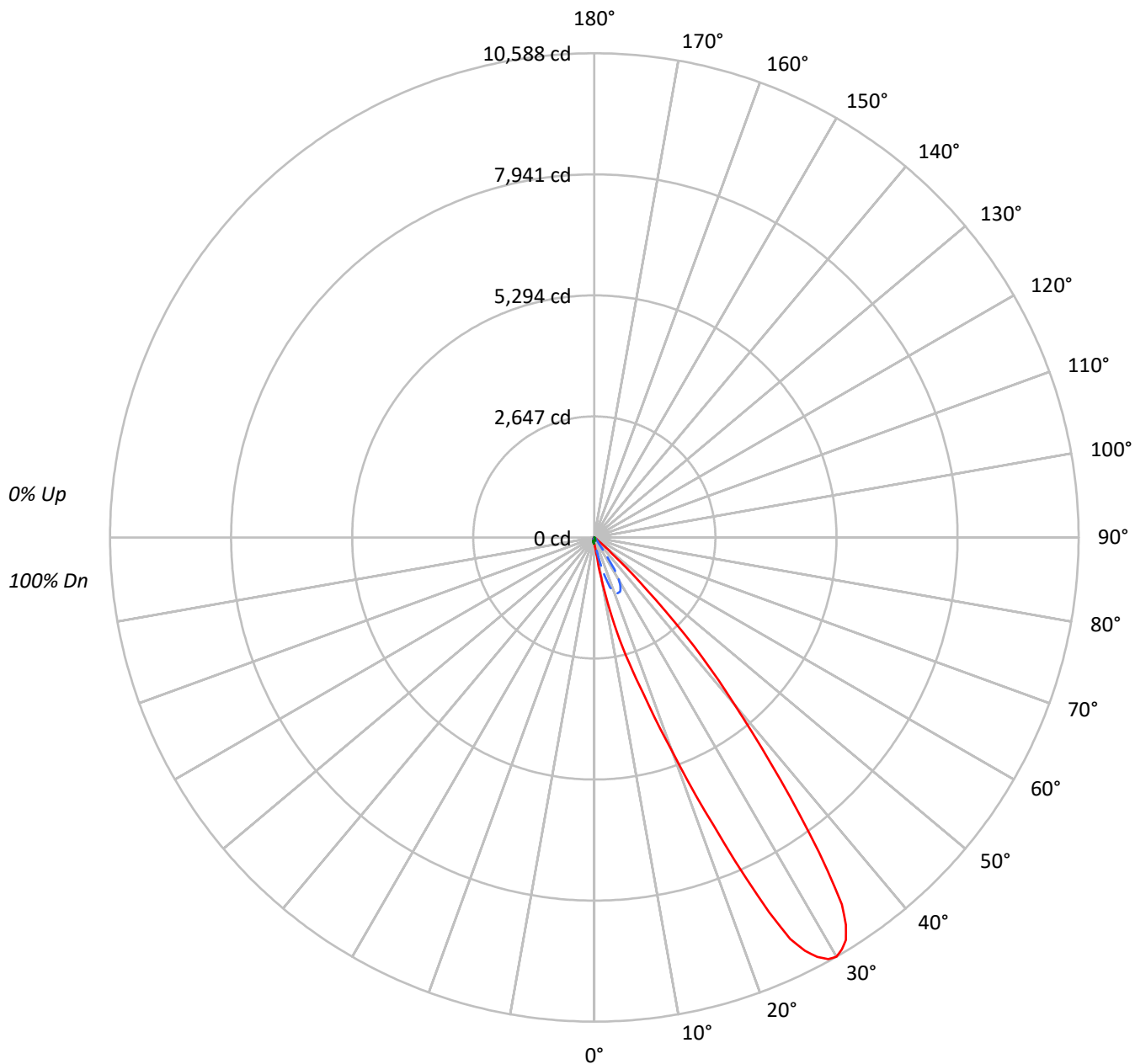
Lumens per Lamp: N/A
Luminaire Lumens: 1628.3 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Spacing Criteria (0/90/45): 2.24 / 0.6 / 1.1
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	13601	13601	13601
5°	22648	12836	10950
10°	96580	11244	9503
15°	267310	8936	8425
20°	512721	6330	7536
25°	966726	4222	6649
30°	1184418	2819	5828
35°	1051891	1892	4967
40°	599505	1277	4148
45°	218683	1041	3452
50°	24084	754	2924
55°	3547	574	2398
60°	814	659	1957
65°	573	779	1352
70°	482	963	1190
75°	636	1273	936
80°	0	1897	948
85°	0	2779	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	1.1
10°-20°	176.4	10.8
20°-30°	579.5	35.6
30°-40°	635.5	39.0
40°-50°	198.5	12.2
50°-60°	10.9	0.7
60°-70°	4.4	0.3
70°-80°	3.3	0.2
80°-90°	2.1	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°	773.6	47.5
0°-40°	1409.1	86.5
0°-60°	1618.5	99.4
0°-90°	1628.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	140	140	140	140	140	
5°	233	187	132	117	113	43
15°	2665	857	89	80	84	837
25°	9044	1315	40	49	62	4032
35°	8894	259	16	28	42	5200
45°	1596	27	8	16	25	1465
55°	21	5	3	9	14	33
65°	2	2	3	7	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°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	173.1	174.8	175.7	171.5	172.3	170.6	172.3	168.9	163.0	164.7	159.8
5°	232.9	229.4	228.6	221.9	220.2	216.8	216.8	209.3	198.3	196.6	186.6
7.5°	411.8	394.2	379.0	356.4	334.6	317.8	311.0	284.2	254.7	243.8	220.2
10°	981.8	978.3	940.6	869.1	786.7	727.0	692.6	588.3	456.5	375.8	291.6
12.5°	1787.0	1770.2	1716.3	1585.3	1443.2	1354.1	1284.3	1074.2	878.4	721.1	516.9
15°	2665.3	2597.2	2518.2	2314.8	2115.6	1999.6	1900.4	1648.3	1344.8	1118.7	856.6
17.5°	3603.3	3633.5	3442.0	3091.5	2737.6	2556.0	2387.9	2000.5	1668.5	1433.1	1138.1
20°	4973.4	4909.5	4572.5	3991.6	3469.7	3166.2	2927.6	2368.6	1867.6	1574.3	1295.2
22.5°	6825.1	6621.7	5964.4	4981.8	4153.8	3732.8	3394.1	2641.0	2034.9	1646.6	1320.5
25°	9044.1	8855.8	7638.7	5934.2	4709.4	4163.9	3703.4	2814.0	2102.2	1658.4	1315.4
26°	9768.6	9488.7	8256.5	6272.9	4880.1	4273.3	3779.8	2847.8	2103.8	1649.1	1293.5
27°	10143.4	9924.1	8767.5	6547.8	4996.9	4342.2	3822.7	2856.2	2087.0	1628.2	1260.0
28°	10390.6	10185.4	9091.2	6727.5	5056.6	4369.0	3835.3	2837.6	2049.2	1591.1	1207.0
29°	10543.5	10327.5	9249.1	6809.1	5060.9	4357.3	3811.8	2788.9	1997.9	1546.6	1145.7
30°	10588.2	10354.5	9253.4	6775.5	4998.6	4294.2	3745.4	2709.8	1935.8	1490.2	1077.5
31°	10509.1	10267.9	9101.3	6622.5	4870.9	4171.5	3641.1	2605.6	1858.4	1430.6	972.5
32°	10377.9	10057.8	8782.7	6368.6	4696.0	4023.5	3510.8	2492.2	1776.0	1354.9	824.5
33°	10098.9	9712.2	8295.1	6050.1	4485.9	3853.8	3358.8	2366.1	1697.9	1224.6	612.8
34°	9679.5	9191.2	7697.6	5679.4	4248.0	3642.0	3184.0	2249.2	1616.4	1052.4	419.4
35°	8894.5	8439.7	7037.7	5284.3	3991.6	3436.9	2991.4	2096.2	1505.4	843.8	258.9
36°	8016.1	7681.5	6398.1	4882.6	3729.4	3224.2	2793.0	1983.6	1341.5	621.2	175.7
37°	7118.4	6821.7	5794.6	4487.6	3466.3	2989.0	2591.4	1855.8	1146.5	414.3	141.2
38°	6263.6	6028.2	5221.4	4099.3	3193.1	2742.7	2379.5	1719.8	936.3	266.5	116.0
39°	5478.5	5302.0	4659.9	3723.5	2919.2	2501.4	2176.1	1548.2	714.5	190.0	96.6
40°	4740.6	4616.2	4118.6	3352.9	2646.8	2264.4	1992.0	1340.6	495.8	150.5	78.2
42.5°	3224.2	3193.1	2898.2	2413.1	1966.0	1742.4	1575.2	754.0	190.9	90.8	43.7
45°	1596.2	1618.0	1500.3	1380.2	1286.9	1218.8	992.7	314.4	105.8	49.6	27.0
47.5°	564.8	565.7	486.6	433.7	414.3	412.6	300.0	111.0	56.2	30.2	19.4
50°	159.8	172.3	162.2	165.6	129.4	110.2	89.9	53.8	28.6	19.4	12.6
51°	98.4	105.8	99.2	102.6	89.1	79.8	67.3	40.3	22.6	16.0	11.8
52°	63.0	67.3	63.8	64.7	59.7	52.1	45.4	29.4	18.5	13.4	10.1
53°	42.9	45.4	42.9	42.9	39.5	37.0	31.9	21.8	15.0	10.9	7.6
54°	29.4	30.2	30.2	30.2	27.8	26.1	22.6	16.9	12.6	10.1	6.8
55°	21.0	21.8	21.0	21.0	20.2	18.5	16.9	12.6	10.1	8.4	5.0
57.5°	9.3	9.3	9.3	10.1	9.3	9.3	8.4	7.6	6.8	5.0	3.4
60°	4.2	4.2	4.2	4.2	5.0	5.0	5.0	5.0	4.2	3.4	3.4
61°	3.4	3.4	3.4	3.4	3.4	4.2	4.2	4.2	3.4	3.4	2.5
62°	2.5	2.5	2.5	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5
63°	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	2.5	2.5	2.5
64°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	2.5	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5
66°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5
77.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	2.5
80°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	2.5
82.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	2.5
85°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	2.5
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.7	1.7	2.5
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°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	156.3	155.5	151.4	147.0	147.9	146.2	144.6	142.1	140.4	136.2	136.2
5°	178.2	174.0	164.7	156.3	155.5	152.2	147.0	142.1	137.8	132.0	130.3
7.5°	203.4	191.7	176.5	163.0	160.6	155.5	146.2	139.6	132.0	124.4	121.9
10°	239.5	211.8	185.8	165.6	160.6	153.0	141.2	132.0	123.5	114.3	111.0
12.5°	368.2	261.4	197.5	165.6	156.3	147.0	132.8	121.9	111.8	101.7	98.4
15°	613.6	417.8	250.4	165.6	148.8	137.8	120.2	109.3	98.4	89.1	85.7
17.5°	847.3	594.2	348.8	186.6	149.7	126.9	105.0	93.3	84.0	74.8	72.3
20°	982.6	692.6	413.5	207.6	147.9	114.3	89.9	77.4	68.2	61.4	58.9
22.5°	1000.2	696.8	399.3	185.8	124.4	95.0	74.8	63.0	55.4	49.6	47.9
25°	953.1	615.3	319.4	132.0	92.5	77.4	58.9	50.4	44.5	39.5	38.7
26°	917.0	566.5	278.2	109.3	81.5	69.0	53.0	45.4	40.3	36.2	35.3
27°	865.7	514.4	237.8	90.8	72.3	62.2	47.1	41.2	37.0	32.8	32.8
28°	807.8	458.1	191.7	76.5	64.7	55.4	42.9	37.0	32.8	30.2	30.2
29°	738.0	376.6	140.4	66.3	57.2	48.8	37.8	32.8	29.4	27.8	27.8
30°	634.6	273.2	96.6	58.0	49.6	42.9	33.6	29.4	27.0	25.2	25.2
31°	495.8	168.1	75.6	50.4	43.7	37.8	30.2	26.1	24.3	22.6	23.5
32°	337.9	105.0	64.7	43.7	38.7	32.8	27.0	23.5	21.8	21.0	21.0
33°	192.5	87.4	56.2	37.8	32.8	28.6	23.5	21.0	20.2	19.4	19.4
34°	127.7	74.8	48.8	31.9	27.0	24.3	20.2	18.5	17.7	17.7	17.7
35°	107.5	64.7	39.5	27.0	23.5	21.0	17.7	16.9	16.0	16.0	16.9
36°	90.8	53.8	31.9	22.6	20.2	18.5	16.0	15.0	14.2	14.2	15.0
37°	76.5	42.9	27.0	19.4	16.9	16.0	14.2	13.4	13.4	13.4	14.2
38°	62.2	34.4	22.6	16.9	15.0	13.4	12.6	11.8	11.8	12.6	13.4
39°	48.8	27.8	18.5	14.2	12.6	11.8	10.9	10.9	10.9	10.9	11.8
40°	38.7	23.5	16.0	12.6	10.9	10.9	10.1	9.3	10.1	10.1	11.8
42.5°	24.3	16.9	11.8	9.3	8.4	8.4	7.6	7.6	7.6	8.4	9.3
45°	17.7	13.4	9.3	7.6	6.8	5.9	5.9	5.9	6.8	7.6	8.4
47.5°	13.4	9.3	6.8	5.0	4.2	4.2	4.2	4.2	5.0	5.9	6.8
50°	9.3	5.9	4.2	3.4	3.4	3.4	3.4	3.4	4.2	5.0	5.9
51°	7.6	5.0	4.2	3.4	3.4	2.5	2.5	3.4	4.2	4.2	5.0
52°	5.9	4.2	3.4	2.5	2.5	2.5	2.5	3.4	3.4	4.2	5.0
53°	5.0	4.2	3.4	2.5	2.5	2.5	2.5	2.5	3.4	4.2	5.0
54°	4.2	3.4	2.5	2.5	2.5	2.5	2.5	2.5	3.4	4.2	5.0
55°	3.4	3.4	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	4.2
57.5°	3.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	4.2
60°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	4.2
61°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	4.2
62°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	4.2
63°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	4.2
64°	2.5	2.5	2.5	2.5	3.4	3.4	2.5	2.5	3.4	3.4	4.2
65°	2.5	2.5	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4	4.2
66°	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4	4.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
72.5°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	3.4	3.4	3.4
75°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4
80°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	3.4	3.4
82.5°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	3.4
85°	2.5	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5
87.5°	2.5	2.5	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5	2.5
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°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	134.5	132.0	130.3	129.4	130.3	128.6	126.1	126.9	126.1	125.2	125.2
5°	127.7	123.5	121.9	121.0	121.0	120.2	116.8	117.6	116.8	116.0	116.0
7.5°	118.6	115.1	112.6	111.8	111.8	111.0	107.5	109.3	107.5	106.7	107.5
10°	107.5	104.2	103.4	101.7	101.7	100.9	98.4	99.2	98.4	98.4	98.4
12.5°	95.8	92.5	91.6	90.8	91.6	90.8	88.3	89.9	89.1	89.1	89.9
15°	83.2	80.7	80.7	79.8	80.7	79.8	79.0	79.8	79.8	79.8	81.5
17.5°	70.6	69.0	69.0	68.2	69.0	69.0	68.2	70.6	70.6	72.3	73.9
20°	58.0	56.2	57.2	57.2	58.9	58.9	58.9	61.4	62.2	63.8	66.3
22.5°	47.9	47.1	47.9	47.9	49.6	50.4	50.4	53.0	55.4	57.2	59.7
25°	38.7	38.7	40.3	40.3	41.2	42.9	43.7	47.1	48.8	50.4	53.0
26°	36.2	36.2	37.0	37.8	38.7	40.3	41.2	44.5	46.2	47.9	50.4
27°	32.8	32.8	34.4	35.3	36.2	37.8	39.5	42.0	43.7	46.2	47.9
28°	30.2	30.2	31.9	32.8	33.6	36.2	37.0	39.5	41.2	43.7	46.2
29°	27.8	28.6	30.2	30.2	31.9	33.6	34.4	37.8	39.5	41.2	43.7
30°	26.1	27.0	27.8	28.6	29.4	31.1	32.8	35.3	37.0	38.7	41.2
31°	24.3	25.2	26.1	27.0	27.8	29.4	31.1	33.6	35.3	37.0	39.5
32°	22.6	22.6	24.3	25.2	26.1	27.8	29.4	31.9	33.6	35.3	37.8
33°	21.0	21.8	22.6	23.5	24.3	26.1	27.8	29.4	31.1	33.6	36.2
34°	19.4	20.2	21.8	22.6	23.5	25.2	26.1	27.8	29.4	31.9	33.6
35°	17.7	19.4	20.2	21.0	21.8	23.5	24.3	27.0	27.8	30.2	31.9
36°	16.9	17.7	19.4	20.2	21.0	21.8	22.6	25.2	27.0	28.6	30.2
37°	15.0	16.9	17.7	18.5	19.4	21.0	21.8	23.5	25.2	27.0	28.6
38°	14.2	15.0	16.9	17.7	18.5	19.4	20.2	22.6	23.5	25.2	27.0
39°	13.4	14.2	16.0	16.9	16.9	18.5	19.4	21.0	21.8	23.5	26.1
40°	12.6	13.4	15.0	15.0	16.0	17.7	18.5	20.2	21.0	22.6	24.3
42.5°	10.9	11.8	12.6	13.4	14.2	15.0	16.0	17.7	18.5	19.4	21.0
45°	9.3	10.1	11.8	11.8	12.6	13.4	14.2	15.0	16.0	17.7	18.5
47.5°	7.6	9.3	10.1	10.9	10.9	11.8	12.6	13.4	14.2	15.0	16.0
50°	6.8	7.6	8.4	9.3	9.3	10.1	10.9	11.8	11.8	12.6	14.2
51°	6.8	7.6	8.4	8.4	9.3	10.1	10.1	10.9	11.8	11.8	12.6
52°	5.9	6.8	7.6	8.4	8.4	9.3	10.1	10.1	10.9	11.8	12.6
53°	5.9	6.8	7.6	7.6	8.4	9.3	9.3	10.1	10.1	10.9	11.8
54°	5.9	6.8	7.6	7.6	8.4	8.4	9.3	9.3	10.1	10.1	10.9
55°	5.0	5.9	6.8	7.6	7.6	8.4	8.4	9.3	9.3	10.1	10.1
57.5°	5.0	5.9	6.8	6.8	6.8	7.6	7.6	8.4	8.4	8.4	9.3
60°	5.0	5.9	5.9	6.8	6.8	7.6	7.6	7.6	7.6	8.4	8.4
61°	5.0	5.0	5.9	6.8	6.8	6.8	7.6	7.6	7.6	7.6	8.4
62°	5.0	5.0	5.9	5.9	6.8	6.8	6.8	7.6	7.6	7.6	7.6
63°	4.2	5.0	5.9	5.9	6.8	6.8	6.8	6.8	6.8	7.6	7.6
64°	4.2	5.0	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8
65°	4.2	5.0	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8
66°	4.2	5.0	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8	6.8



TEST NUMBER: P1212190

CATALOG NUMBER: LDSQA4A20930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
72.5°	4.2	4.2	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
75°	4.2	4.2	4.2	5.0	5.0	5.0	5.0	5.0	5.0	4.2	4.2
77.5°	3.4	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.4
80°	3.4	3.4	4.2	4.2	4.2	4.2	4.2	4.2	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	2.5	2.5	1.7
87.5°	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5	1.7	1.7
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: P1212190

CATALOG NUMBER: LDSQA4A20930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	126.1	123.5	122.7	122.7	123.5	122.7	123.5	122.7
5°	116.0	113.4	113.4	112.6	113.4	112.6	113.4	112.6
7.5°	107.5	105.0	105.0	105.0	105.0	105.0	105.8	105.0
10°	99.2	96.6	96.6	95.8	96.6	96.6	97.5	96.6
12.5°	90.8	89.1	89.1	88.3	89.9	89.1	90.8	89.9
15°	83.2	81.5	81.5	82.4	83.2	83.2	84.0	84.0
17.5°	75.6	75.6	75.6	76.5	77.4	78.2	79.0	78.2
20°	69.0	69.0	69.8	70.6	71.4	72.3	73.1	73.1
22.5°	62.2	62.2	63.0	64.7	66.3	67.3	68.2	68.2
25°	55.4	56.2	57.2	58.0	60.6	61.4	62.2	62.2
26°	53.0	53.8	55.4	56.2	58.0	58.9	60.6	60.6
27°	51.3	52.1	53.0	53.8	56.2	57.2	58.9	58.0
28°	48.8	49.6	50.4	52.1	53.8	55.4	56.2	56.2
29°	46.2	47.9	48.8	49.6	52.1	53.0	53.8	53.8
30°	44.5	45.4	46.2	47.9	49.6	51.3	52.1	52.1
31°	42.0	43.7	44.5	45.4	47.9	48.8	50.4	50.4
32°	40.3	41.2	42.0	43.7	45.4	47.1	47.9	47.9
33°	37.8	39.5	40.3	41.2	43.7	45.4	46.2	45.4
34°	36.2	37.8	37.8	39.5	41.2	42.9	43.7	43.7
35°	34.4	35.3	36.2	37.8	39.5	41.2	42.0	42.0
36°	32.8	33.6	34.4	36.2	37.8	39.5	40.3	40.3
37°	31.1	31.9	32.8	33.6	36.2	37.8	38.7	38.7
38°	29.4	30.2	31.1	32.8	34.4	35.3	37.0	37.0
39°	27.8	28.6	29.4	31.1	32.8	33.6	35.3	34.4
40°	26.1	27.8	27.8	29.4	31.1	31.9	33.6	32.8
42.5°	22.6	23.5	24.3	25.2	27.0	28.6	29.4	29.4
45°	20.2	21.0	21.8	22.6	23.5	24.3	26.1	25.2
47.5°	16.9	17.7	18.5	19.4	20.2	21.0	21.8	21.8
50°	15.0	15.0	16.0	16.0	17.7	18.5	19.4	19.4
51°	13.4	14.2	15.0	15.0	16.9	16.9	17.7	17.7
52°	13.4	13.4	14.2	14.2	15.0	16.0	16.9	16.9
53°	12.6	12.6	13.4	13.4	14.2	15.0	16.0	16.0
54°	11.8	11.8	12.6	12.6	13.4	14.2	15.0	15.0
55°	10.9	10.9	11.8	11.8	12.6	13.4	14.2	14.2
57.5°	9.3	10.1	10.1	10.9	10.9	11.8	11.8	12.6
60°	8.4	9.3	9.3	9.3	10.1	10.1	10.1	10.1
61°	8.4	8.4	8.4	9.3	9.3	8.4	9.3	8.4
62°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
63°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
64°	7.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
65°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.9
66°	6.8	6.8	5.9	6.8	5.9	5.9	5.9	5.9



TEST NUMBER: P1212190

CATALOG NUMBER: LDSQA4A20930D010TE LAR15SP 4LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
72.5°	4.2	4.2	4.2	4.2	4.2	3.4	3.4	3.4
75°	4.2	4.2	4.2	3.4	3.4	3.4	3.4	2.5
77.5°	3.4	3.4	3.4	3.4	2.5	2.5	2.5	2.5
80°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7
82.5°	2.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	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

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report





67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5

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67.5°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	3.4	3.4	4.2
70°	2.5	3.4	3.4	3.4	3.4	3.4	3.4	2.5	3.4	3.4	3.4

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67.5°	4.2	5.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	4.2	5.0	5.0	5.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9

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67.5°	5.9	5.9	5.9	5.9	5.9	5.0	5.0	5.0
70°	5.0	5.0	5.0	5.0	5.0	4.2	4.2	4.2

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Scaled Data Report



(END OF REPORT)