

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: P1219655

Luminaire Tested: **LDSQA6A70950D010TE LARH20SP 6LSQA1H 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: P1219655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26686)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A70950D010TE LARH20SP 6LSQA1H 30°
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 20° SPOT, 30° Tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

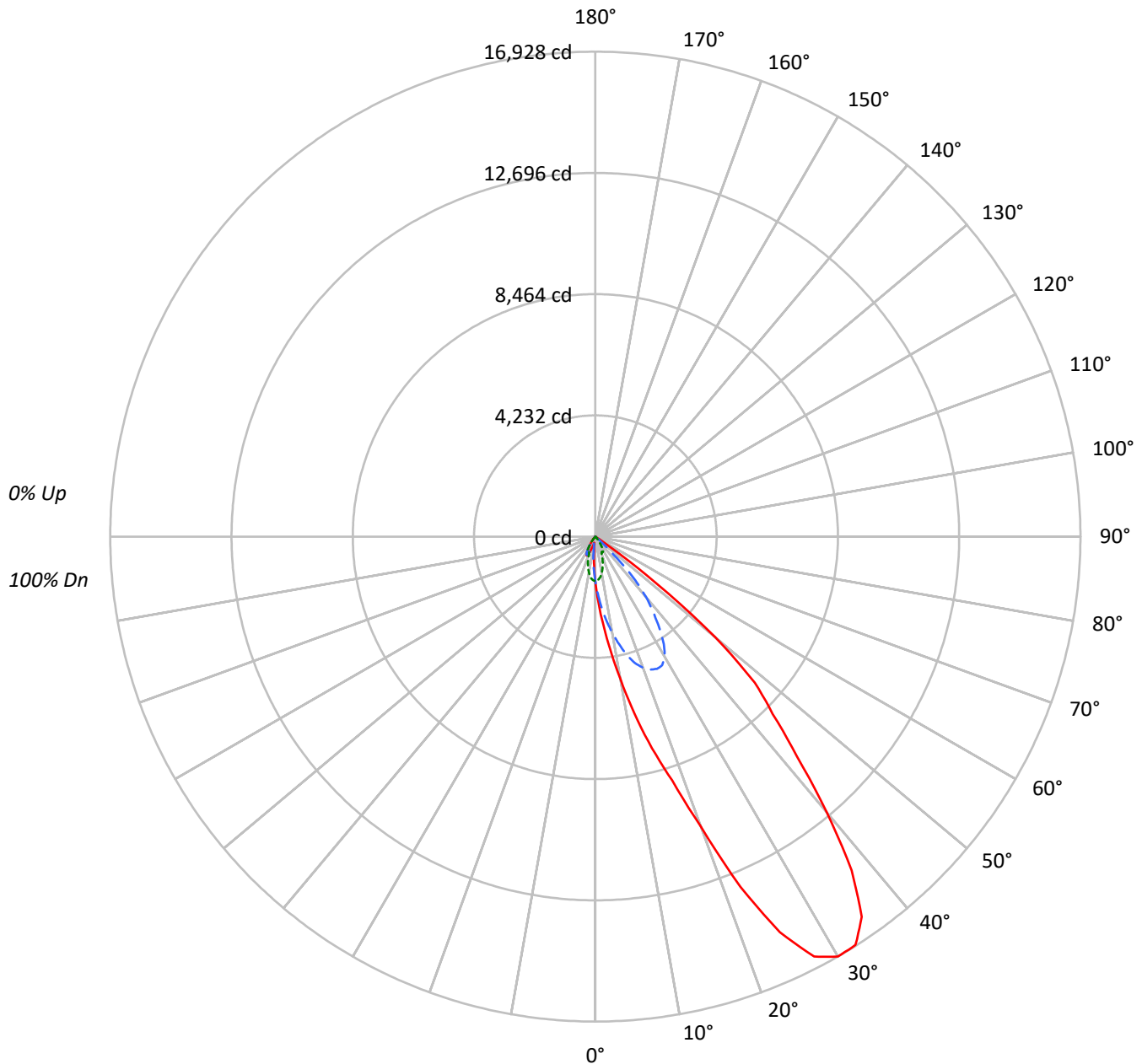
Lumens per Lamp: N/A
Luminaire Lumens: 5526.9 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.6 / 1.31
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78.1
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60		
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	49		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	45	44		
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40		
10	61	50	43	38	60	49	43	38	48	42	38	48	42	38	47	41	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	67175	67175	67175
5°	130170	64022	21593
10°	221161	56023	9697
15°	340794	44690	15414
20°	493332	29077	26818
25°	723802	28062	34476
30°	841594	26588	26419
35°	851834	14086	13960
40°	705257	5300	5868
45°	532659	1802	2143
50°	364426	663	663
55°	50699	578	75
60°	1326	577	0
65°	326	784	0
70°	126	969	0
75°	0	1281	0
80°	0	2182	248
85°	0	4347	0

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	3.0
10°-20°	691.9	12.5
20°-30°	1578.4	28.6
30°-40°	1826.6	33.0
40°-50°	1101.6	19.9
50°-60°	149.7	2.7
60°-70°	4.8	0.1
70°-80°	5.2	0.1
80°-90°	4.9	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°	2434.0	44.0
0°-40°	4260.6	77.1
0°-60°	5511.9	99.7
0°-90°	5526.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5526.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1560	1560	1560	1560	1560	
5°	3012	2466	1481	810	500	351
15°	7646	4298	1003	309	346	2263
25°	15236	5093	591	710	726	6895
35°	16206	3882	268	273	266	9767
45°	8748	1057	30	36	35	6840
55°	675	8	8	6	1	1324
65°	3	4	8	4	0	5
75°	0	6	8	6	0	0
85°	0	6	9	6	0	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°	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2
2.5°	2256.4	2235.6	2244.3	2221.2	2163.1	2151.0	2150.0	2134.5	2085.1	2046.6	2000.5
5°	3011.8	3010.8	3016.2	2966.8	2864.8	2832.9	2817.5	2780.1	2660.4	2568.3	2466.0
7.5°	3955.0	3948.4	3941.9	3851.8	3691.5	3630.0	3590.5	3455.4	3290.8	3127.2	2944.8
10°	5058.6	5055.2	5030.0	4871.8	4614.9	4501.7	4425.0	4210.8	3946.2	3713.4	3403.8
12.5°	6339.9	6310.2	6265.2	6033.6	5681.1	5558.1	5389.0	5049.7	4643.4	4286.7	3854.0
15°	7645.5	7602.6	7522.4	7224.8	6787.9	6578.2	6368.4	5921.4	5370.2	4852.0	4297.6
17.5°	8922.4	8875.2	8687.4	8182.3	7755.2	7499.4	7266.6	6652.8	6005.1	5338.5	4635.7
20°	10767.0	10595.7	10268.5	9472.5	8678.6	8217.5	7945.2	7296.2	6494.7	5718.4	4876.2
22.5°	13231.0	12851.1	12153.9	10860.3	9726.2	9060.7	8614.9	7752.0	6847.2	5966.5	5024.4
25°	15235.8	15063.5	14270.8	12430.4	10660.5	9876.5	9256.2	8114.3	7104.0	6132.4	5092.6
27.5°	16528.2	16485.5	15579.5	13730.5	11423.6	10394.9	9702.0	8353.6	7228.2	6167.4	5059.6
30°	16927.9	16995.0	16125.3	14172.0	11644.4	10499.1	9741.5	8356.8	7132.6	6008.3	4848.8
32.5°	16898.2	16901.7	15835.5	13790.9	11285.2	10196.2	9412.1	8079.1	6780.2	5609.8	4448.0
35°	16206.5	16036.4	14830.8	12620.4	10449.7	9488.9	8759.9	7541.0	6199.3	5010.2	3882.5
37.5°	14688.0	14465.0	13059.7	11121.7	9460.4	8572.1	7983.6	6835.1	5507.6	4370.1	3298.4
40°	12547.9	12231.9	11072.3	9728.4	8377.8	7710.1	7216.0	6045.6	4767.6	3741.9	2750.5
42.5°	10405.8	10251.0	9484.6	8392.0	7467.5	6839.5	6323.4	5218.8	4056.0	3122.7	2057.6
45°	8747.9	8614.9	8099.9	7379.6	6472.8	5899.6	5402.2	4356.8	3151.2	2095.0	1057.4
47.5°	7540.0	7432.4	6939.4	6182.8	5188.0	4561.1	4048.3	2857.1	1785.3	904.8	264.6
50°	5440.6	5330.8	4847.8	3971.6	3073.4	2548.5	2179.5	1275.9	506.2	183.4	27.5
52.5°	2667.1	2577.0	2248.7	1683.2	1129.9	812.6	594.0	239.3	58.1	19.8	13.1
55°	675.4	620.5	517.1	325.0	159.2	95.6	61.6	21.9	14.4	10.9	7.7
57.5°	38.4	37.3	34.1	25.3	18.6	16.5	14.4	10.9	7.7	6.7	5.5
60°	15.4	14.4	13.1	10.9	8.8	7.7	7.7	5.5	4.4	4.4	4.4
62.5°	6.7	6.7	6.7	5.5	4.4	4.4	4.4	3.2	4.4	4.4	4.4
65°	3.2	3.2	3.2	2.2	2.2	2.2	3.2	3.2	3.2	4.4	4.4
67.5°	2.2	1.0	1.0	1.0	2.2	2.2	2.2	3.2	3.2	4.4	4.4
70°	1.0	1.0	1.0	1.0	2.2	2.2	2.2	3.2	3.2	4.4	5.5
72.5°	0.0	1.0	1.0	1.0	2.2	2.2	2.2	3.2	3.2	4.4	5.5
75°	0.0	1.0	1.0	1.0	2.2	2.2	2.2	3.2	4.4	4.4	5.5
77.5°	0.0	1.0	1.0	1.0	2.2	2.2	2.2	3.2	4.4	4.4	5.5
80°	0.0	1.0	1.0	1.0	2.2	2.2	2.2	3.2	4.4	4.4	5.5
82.5°	0.0	0.0	1.0	1.0	2.2	2.2	2.2	3.2	4.4	4.4	5.5
85°	0.0	0.0	1.0	1.0	2.2	2.2	2.2	3.2	4.4	4.4	5.5
87.5°	0.0	0.0	1.0	1.0	2.2	2.2	2.2	3.2	3.2	4.4	5.5
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°	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2
2.5°	1941.2	1901.7	1843.6	1805.0	1767.8	1732.6	1674.4	1641.4	1582.3	1527.3	1480.1
5°	2343.1	2244.3	2124.7	2022.5	1956.7	1891.9	1774.3	1687.6	1578.8	1481.3	1391.2
7.5°	2749.4	2574.8	2378.3	2210.2	2108.2	2008.2	1832.5	1692.1	1538.3	1398.9	1266.0
10°	3118.4	2855.9	2578.2	2337.6	2199.3	2069.8	1838.1	1651.3	1453.8	1281.4	1114.5
12.5°	3460.8	3101.9	2739.6	2425.5	2254.2	2098.3	1815.0	1586.6	1351.6	1147.4	953.1
15°	3766.2	3304.9	2857.1	2476.0	2275.0	2090.6	1761.2	1495.4	1230.8	1002.6	756.6
17.5°	3997.9	3431.3	2908.6	2468.3	2237.7	2032.5	1668.9	1381.3	1102.4	825.7	548.0
20°	4138.4	3485.0	2897.6	2409.0	2157.5	1940.1	1559.2	1257.3	947.6	634.6	483.1
22.5°	4197.6	3480.7	2846.0	2320.0	2058.7	1839.1	1453.8	1136.5	785.1	574.2	504.0
25°	4207.5	3435.7	2773.5	2222.4	1961.0	1742.6	1347.2	999.1	681.8	590.7	564.3
27.5°	4131.8	3330.3	2637.3	2081.8	1823.8	1597.6	1188.0	793.9	640.2	588.5	606.1
30°	3907.8	3089.7	2397.0	1834.8	1585.5	1359.3	848.7	622.5	531.4	534.8	539.1
32.5°	3513.5	2690.1	2010.4	1473.6	1201.2	896.0	528.1	416.1	404.1	404.1	401.9
35°	2987.6	2201.5	1577.8	932.3	597.3	430.5	273.4	274.5	269.0	268.0	266.8
37.5°	2444.1	1737.0	999.1	385.4	259.2	180.1	161.4	163.6	161.4	164.6	162.6
40°	1927.0	1072.9	364.5	123.0	91.1	87.9	90.1	92.2	92.2	94.3	94.3
42.5°	1120.0	355.7	95.6	49.3	49.3	47.2	48.3	50.5	51.7	52.7	51.7
45°	332.7	73.5	30.7	27.5	27.5	26.4	26.4	27.5	28.5	29.6	29.6
47.5°	52.7	20.8	17.6	15.4	15.4	15.4	15.4	15.4	16.5	16.5	17.6
50°	16.5	13.1	10.9	9.9	9.9	8.8	8.8	9.9	9.9	9.9	10.9
52.5°	9.9	7.7	7.7	6.7	7.7	7.7	6.7	7.7	7.7	7.7	8.8
55°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.7	7.7	7.7
57.5°	5.5	5.5	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
60°	5.5	5.5	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.7
62.5°	5.5	5.5	6.7	6.7	6.7	6.7	6.7	6.7	7.7	7.7	7.7
65°	5.5	5.5	6.7	6.7	6.7	6.7	6.7	7.7	7.7	7.7	7.7
67.5°	5.5	6.7	6.7	6.7	6.7	7.7	7.7	7.7	7.7	7.7	7.7
70°	5.5	6.7	6.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
72.5°	5.5	6.7	6.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
75°	6.7	6.7	6.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	8.8
77.5°	6.7	6.7	7.7	7.7	7.7	7.7	7.7	7.7	8.8	8.8	8.8
80°	6.7	6.7	7.7	7.7	7.7	7.7	7.7	8.8	8.8	8.8	8.8
82.5°	6.7	6.7	7.7	7.7	7.7	7.7	7.7	8.8	8.8	8.8	8.8
85°	6.7	6.7	7.7	7.7	7.7	7.7	7.7	8.8	8.8	8.8	8.8
87.5°	6.7	6.7	7.7	7.7	7.7	7.7	7.7	8.8	8.8	8.8	8.8
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°	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2
2.5°	1439.5	1388.9	1364.9	1330.8	1306.6	1252.8	1230.8	1193.5	1162.7	1112.3	1115.5
5°	1314.2	1218.9	1154.1	1103.5	1068.4	982.8	925.6	865.3	810.4	742.2	717.0
7.5°	1140.8	1023.4	924.5	864.0	819.2	704.9	578.7	479.9	405.2	351.4	330.5
10°	967.4	814.7	657.7	564.3	499.6	389.8	333.8	307.4	283.3	253.7	233.9
12.5°	765.3	548.0	405.2	367.8	341.5	305.2	269.0	240.6	246.0	247.0	254.7
15°	522.7	394.3	349.2	324.0	295.4	274.5	286.6	294.3	308.6	309.6	319.5
17.5°	424.9	370.0	333.8	332.7	334.9	346.9	365.6	375.4	394.3	398.5	412.9
20°	424.9	393.0	423.9	423.9	429.3	445.7	470.0	484.3	505.1	512.8	530.4
22.5°	484.3	506.2	544.5	549.0	551.2	568.8	599.5	613.8	637.8	642.3	661.0
25°	590.7	610.5	645.6	649.0	650.0	663.1	686.3	694.0	710.3	701.7	712.6
27.5°	624.7	633.6	655.4	657.7	652.2	657.7	666.5	666.5	671.9	654.4	657.7
30°	549.0	551.2	562.1	563.3	551.2	553.4	554.4	553.4	552.3	533.6	533.6
32.5°	407.4	407.4	421.7	418.3	405.2	408.4	408.4	408.4	407.4	392.0	389.8
35°	270.1	271.2	283.3	281.1	271.2	273.4	273.4	276.7	273.4	264.6	262.4
37.5°	164.6	165.8	171.3	172.4	169.1	170.2	171.3	170.2	172.4	168.1	165.8
40°	95.6	97.8	102.1	103.2	102.1	102.1	103.2	104.4	108.7	103.2	101.0
42.5°	56.0	57.1	59.4	59.4	59.4	59.4	60.4	61.6	62.6	61.6	60.4
45°	31.9	33.0	34.1	34.1	35.2	34.1	35.2	35.2	36.2	35.2	35.2
47.5°	18.6	18.6	19.8	19.8	20.8	19.8	20.8	20.8	20.8	19.8	19.8
50°	10.9	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	10.9	10.9
52.5°	8.8	8.8	8.8	8.8	8.8	7.7	7.7	7.7	7.7	6.7	6.7
55°	7.7	7.7	7.7	7.7	7.7	7.7	6.7	5.5	5.5	4.4	4.4
57.5°	6.7	7.7	7.7	7.7	7.7	6.7	6.7	5.5	4.4	3.2	3.2
60°	7.7	7.7	7.7	7.7	6.7	6.7	6.7	5.5	4.4	3.2	3.2
62.5°	7.7	7.7	7.7	7.7	7.7	6.7	6.7	5.5	4.4	3.2	3.2
65°	7.7	7.7	7.7	7.7	7.7	6.7	6.7	5.5	4.4	3.2	3.2
67.5°	7.7	7.7	7.7	7.7	7.7	6.7	6.7	5.5	4.4	4.4	3.2
70°	7.7	8.8	8.8	7.7	7.7	7.7	6.7	5.5	5.5	4.4	3.2
72.5°	7.7	8.8	8.8	7.7	7.7	7.7	6.7	5.5	5.5	4.4	3.2
75°	8.8	8.8	8.8	8.8	7.7	7.7	6.7	6.7	5.5	4.4	3.2
77.5°	8.8	8.8	8.8	8.8	7.7	7.7	6.7	6.7	5.5	4.4	3.2
80°	8.8	8.8	8.8	8.8	8.8	7.7	7.7	6.7	5.5	4.4	4.4
82.5°	8.8	8.8	8.8	8.8	8.8	7.7	7.7	6.7	5.5	4.4	4.4
85°	8.8	8.8	8.8	8.8	8.8	7.7	7.7	6.7	5.5	4.4	3.2
87.5°	8.8	8.8	8.8	8.8	7.7	7.7	6.7	6.7	5.5	4.4	3.2
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: P1219655

CATALOG NUMBER: LDSQA6A70950D010TE LARH20SP 6LSQA1H 30°

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2
2.5°	1074.9	1049.7	1038.8	1056.3	1047.5	1021.2	1026.6	1010.3
5°	641.3	602.9	578.7	589.6	554.4	522.7	522.7	499.6
7.5°	309.6	297.5	291.0	293.1	285.6	275.5	270.1	270.1
10°	217.4	213.1	214.1	214.1	220.7	219.5	223.0	221.8
12.5°	258.1	260.2	261.4	265.6	271.2	271.2	274.5	272.3
15°	330.5	328.2	334.9	335.9	344.8	345.8	350.3	345.8
17.5°	420.5	424.9	431.6	430.5	447.9	449.2	449.2	447.9
20°	541.3	544.5	551.2	553.4	574.2	576.5	584.2	585.3
22.5°	673.0	673.0	676.4	680.8	700.4	701.7	704.9	704.9
25°	718.0	711.6	712.6	718.0	729.1	724.7	727.9	725.7
27.5°	659.9	650.0	647.9	655.4	663.1	651.1	655.4	655.4
30°	535.8	527.0	524.9	532.6	538.0	524.9	529.2	531.4
32.5°	392.0	386.6	385.4	390.8	395.3	384.3	388.8	392.0
35°	264.6	262.4	260.2	261.4	268.0	259.2	263.5	265.6
37.5°	168.1	163.6	164.6	166.8	171.3	165.8	170.2	170.2
40°	103.2	101.0	101.0	103.2	105.5	101.0	103.2	104.4
42.5°	60.4	60.4	60.4	61.6	62.6	60.4	60.4	61.6
45°	35.2	34.1	34.1	35.2	36.2	34.1	35.2	35.2
47.5°	19.8	18.6	18.6	19.8	19.8	18.6	19.8	19.8
50°	10.9	9.9	9.9	10.9	10.9	9.9	9.9	9.9
52.5°	5.5	5.5	5.5	5.5	5.5	5.5	4.4	4.4
55°	3.2	3.2	2.2	2.2	2.2	2.2	2.2	1.0
57.5°	2.2	2.2	1.0	1.0	1.0	1.0	0.0	0.0
60°	2.2	2.2	1.0	1.0	1.0	0.0	0.0	0.0
62.5°	2.2	2.2	1.0	1.0	1.0	0.0	0.0	0.0
65°	2.2	2.2	1.0	1.0	1.0	0.0	0.0	0.0
67.5°	2.2	2.2	1.0	1.0	1.0	0.0	0.0	0.0
70°	3.2	2.2	2.2	1.0	1.0	1.0	0.0	0.0
72.5°	3.2	2.2	2.2	2.2	1.0	1.0	0.0	0.0
75°	3.2	2.2	2.2	2.2	1.0	1.0	0.0	0.0
77.5°	3.2	2.2	2.2	2.2	1.0	1.0	1.0	0.0
80°	3.2	2.2	2.2	2.2	1.0	1.0	1.0	1.0
82.5°	3.2	2.2	2.2	2.2	1.0	1.0	1.0	1.0
85°	3.2	2.2	2.2	2.2	1.0	1.0	1.0	0.0
87.5°	3.2	2.2	2.2	2.2	1.0	1.0	1.0	0.0
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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(END OF REPORT)