

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: P1212473

Luminaire Tested: **LDSQA6A25927D010TE LARL15SP 6LSQA1H**

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: P1212473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29053)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A25927D010TE LARL15SP 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

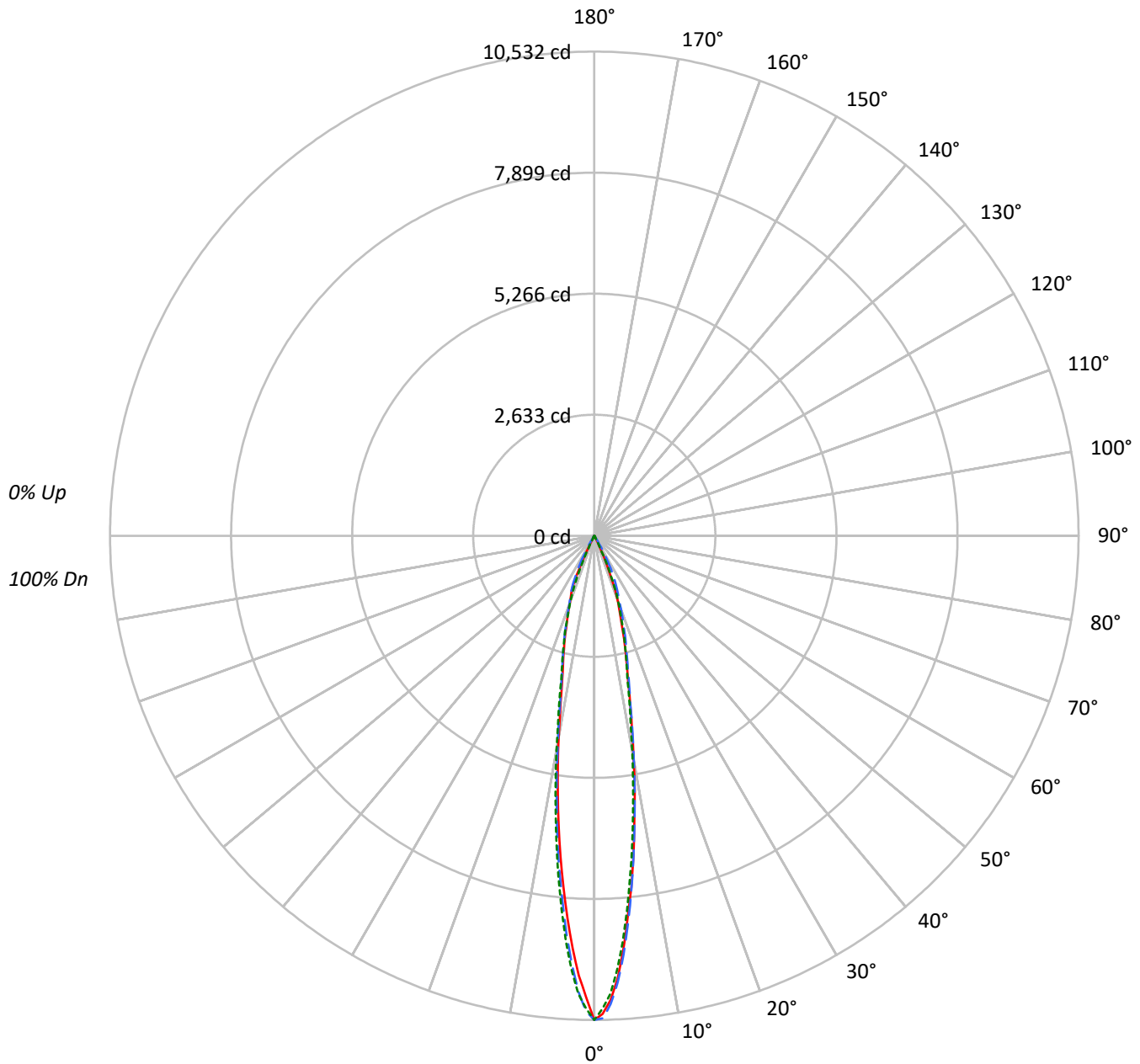
Lumens per Lamp: N/A
Luminaire Lumens: 1781.3 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.36
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97		
2	112	108	105	103	109	106	104	102	103	101	99	100	99	97	98	96	95	94		
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	96	94	92	91		
4	105	100	96	93	103	99	95	93	97	94	91	95	92	90	93	91	90	88		
5	102	96	92	89	101	95	92	89	94	91	88	92	90	88	91	89	87	86		
6	99	93	89	86	98	92	89	86	91	88	85	90	87	85	89	86	84	83		
7	96	90	86	83	95	90	86	83	89	85	83	88	85	82	87	84	82	81		
8	94	88	84	81	93	87	83	81	86	83	80	85	82	80	85	82	80	79		
9	92	85	81	79	91	85	81	79	84	81	78	83	80	78	83	80	78	77		
10	89	83	79	77	89	83	79	76	82	79	76	81	78	76	81	78	76	75		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	453467	453467	453467
5°	360499	352806	331900
10°	214787	206869	194636
15°	117360	117556	113866
20°	67239	69099	71024
25°	17753	18456	33155
30°	2421	2242	2168
35°	972	930	894
40°	371	371	371
45°	177	140	177
50°	100	54	154
55°	60	0	113
60°	69	0	0
65°	82	0	0
70°	101	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	668.8	37.5
10°-20°	752.7	42.3
20°-30°	335.2	18.8
30°-40°	20.4	1.1
40°-50°	3.3	0.2
50°-60°	0.6	0.0
60°-70°	0.2	0.0
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	1756.7	98.6
0°-40°	1777.1	99.8
0°-60°	1781.0	100.0
0°-90°	1781.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10532	10532	10532	10532	10532	
5°	8341	8438	8163	7972	7679	686
15°	2633	2747	2637	2619	2554	742
25°	374	998	388	964	698	220
35°	18	30	18	30	17	13
45°	3	5	2	5	3	3
55°	1	1	0	1	2	1
65°	1	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10532.1	10532.1	10532.1	10532.1	10532.1	10532.1	10532.1	10532.1	10532.1
1°	10402.9	10498.2	10498.2	10475.3	10285.6	10426.5	10346.7	10261.1	10038.0
2°	10103.9	10200.6	10191.0	10103.9	9966.5	10024.7	9915.5	9809.1	9575.1
3°	9642.2	9746.4	9727.2	9636.4	9453.1	9488.6	9332.1	9251.6	8982.7
4°	9021.9	9154.1	9131.1	9030.7	8846.9	8844.6	8680.6	8595.8	8346.8
5°	8341.0	8479.0	8438.5	8355.7	8163.0	8128.3	7971.6	7911.1	7679.3
6°	7686.6	7773.1	7730.9	7662.3	7454.0	7432.6	7284.1	7232.4	7018.3
7°	6989.4	7049.3	7007.9	6954.7	6744.3	6716.2	6595.1	6554.5	6345.4
8°	6254.6	6340.2	6281.2	6247.9	6049.2	6010.9	5889.0	5861.7	5694.0
9°	5626.8	5655.7	5592.9	5493.2	5378.0	5338.9	5209.6	5183.0	5065.6
10°	4912.8	5002.0	4953.3	4867.7	4731.7	4761.3	4573.7	4551.5	4451.9
11°	4291.6	4385.4	4333.7	4256.9	4134.3	4151.3	3997.7	3904.6	3889.1
12°	3779.1	3821.9	3806.3	3744.3	3645.4	3650.6	3513.9	3439.4	3423.8
13°	3279.8	3356.7	3364.0	3313.0	3194.1	3248.8	3146.9	3086.3	3061.9
14°	2941.6	2999.9	3023.5	3022.0	2893.5	2941.6	2861.1	2812.3	2787.9
15°	2632.9	2708.9	2747.4	2745.1	2637.3	2686.1	2618.8	2580.5	2554.5
16°	2343.3	2447.5	2510.2	2499.9	2399.5	2449.7	2383.2	2345.6	2316.7
17°	2052.3	2195.7	2288.0	2268.0	2163.1	2226.7	2163.1	2130.7	2100.3
18°	1828.6	1946.1	2076.0	2033.2	1916.5	2015.5	1960.8	1934.9	1906.8
19°	1627.7	1708.3	1877.3	1801.2	1695.6	1807.9	1767.3	1746.6	1720.1
20°	1467.5	1536.8	1687.5	1597.5	1508.1	1599.6	1588.6	1572.3	1550.1
21°	1262.2	1394.4	1515.4	1432.0	1314.6	1443.8	1457.8	1449.0	1432.8
22°	999.2	1237.0	1390.6	1238.5	1084.9	1330.1	1358.9	1352.2	1340.4
23°	777.7	1051.6	1275.5	1060.5	844.8	1203.8	1246.6	1242.2	1203.1
24°	567.2	861.2	1130.6	851.5	607.8	1031.7	1113.7	1106.3	964.5
25°	373.7	670.6	998.4	638.8	388.5	834.6	964.5	952.0	697.9
26°	240.1	490.4	879.5	436.5	206.8	623.4	806.5	771.0	432.8
27°	115.2	341.9	734.2	257.0	100.4	415.8	646.9	567.9	208.9
28°	72.4	179.4	583.5	127.8	68.0	231.2	495.6	360.4	81.9
29°	59.1	88.6	432.0	72.4	55.3	106.4	355.2	175.8	56.9
30°	48.7	59.1	294.7	55.3	45.1	59.1	233.4	68.6	43.6
32.5°	31.0	37.0	68.0	34.7	29.5	33.9	55.3	33.2	27.3
35°	18.5	23.7	29.5	22.9	17.7	22.2	30.3	21.4	17.0
37.5°	11.0	14.1	19.2	14.1	11.0	14.1	19.2	14.1	10.4
40°	6.6	8.9	13.3	8.9	6.6	8.9	13.3	8.9	6.6
42.5°	4.4	5.2	8.9	5.2	3.7	5.2	8.9	5.9	4.4
45°	2.9	3.7	5.2	2.9	2.3	2.9	5.2	3.7	2.9
47.5°	2.3	2.3	2.9	1.5	1.5	2.3	3.7	2.9	2.3
50°	1.5	1.5	2.3	0.8	0.8	0.8	2.3	2.3	2.3
52.5°	0.8	0.8	0.8	0.0	0.0	0.0	1.5	1.5	1.5
55°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	1.5	1.5
57.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	1.5	1.5
60°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	1.5	0.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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— 0°-180° - - 45°-225° - - - 90°-270°

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62.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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