

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: P1212479

Luminaire Tested: **LDSQA6A25930D010TE 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: P1212479
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: LDSQA6A25930D010TE LARL15SP 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

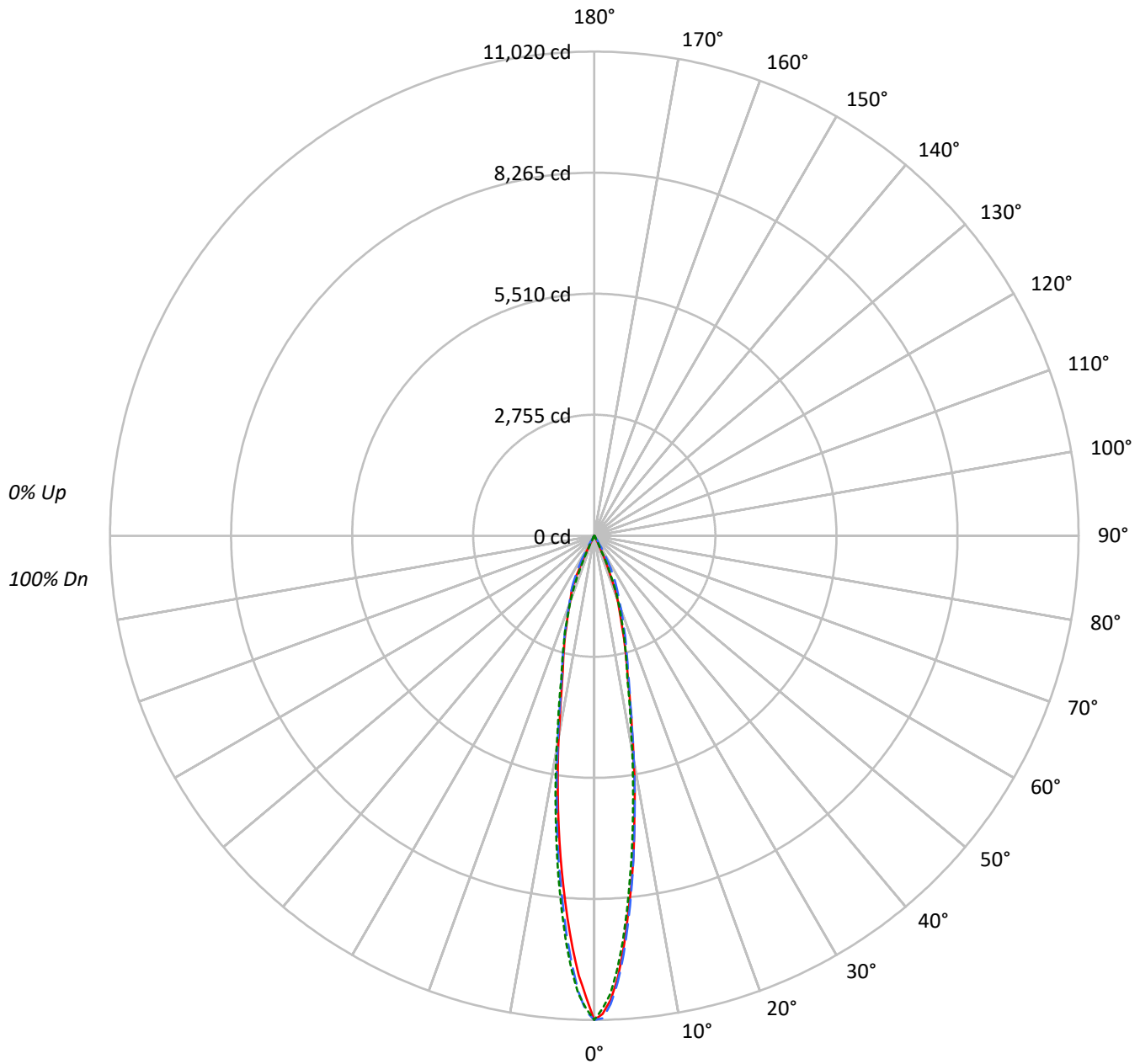
Lumens per Lamp: N/A
Luminaire Lumens: 1863.7 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.36
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	110	113	111	109	108	107	106	105		103	102	101		100
2	112	108	105	103	109	106	104	102	103	101	99		100	99	97		98
3	108	104	100	97	106	102	99	97	100	97	95		98	95	94		96
4	105	100	96	93	103	99	95	93	97	94	91		95	92	90		93
5	102	96	92	89	101	95	92	89	94	91	88		92	90	88		91
6	99	93	89	86	98	92	89	86	91	88	85		90	87	85		89
7	97	90	86	83	95	90	86	83	89	85	83		88	85	82		87
8	94	88	84	81	93	87	83	81	86	83	80		85	82	80		85
9	92	85	81	79	91	85	81	79	84	81	78		83	80	78		83
10	89	83	79	77	89	83	79	76	82	79	76		81	78	76		81

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	474460	474460	474460
5°	377186	369139	347261
10°	224724	216448	203643
15°	122789	122999	119139
20°	70350	72298	74314
25°	18575	19307	34689
30°	2531	2342	2267
35°	1014	972	936
40°	388	388	388
45°	189	140	189
50°	107	54	154
55°	60	0	120
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°	699.8	37.5
10°-20°	787.5	42.3
20°-30°	350.7	18.8
30°-40°	21.4	1.1
40°-50°	3.5	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°	1838.0	98.6
0°-40°	1859.4	99.8
0°-60°	1863.5	100.0
0°-90°	1863.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1863.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11020	11020	11020	11020	11020	
5°	8727	8829	8541	8341	8035	717
15°	2755	2874	2759	2740	2673	777
25°	391	1045	406	1009	730	230
35°	19	31	18	32	18	14
45°	3	6	2	6	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°	11019.7	11019.7	11019.7	11019.7	11019.7	11019.7	11019.7	11019.7	11019.7
1°	10884.5	10984.2	10984.2	10960.3	10761.6	10909.2	10825.8	10736.2	10502.7
2°	10571.5	10672.7	10662.7	10571.5	10427.9	10488.9	10374.5	10263.2	10018.2
3°	10088.6	10197.5	10177.4	10082.3	9890.8	9927.9	9764.1	9679.9	9398.6
4°	9439.5	9577.9	9553.9	9448.7	9256.4	9254.0	9082.4	8993.6	8733.2
5°	8727.1	8871.5	8829.1	8742.5	8540.9	8504.6	8340.7	8277.4	8034.7
6°	8042.4	8132.8	8088.8	8017.0	7799.0	7776.6	7621.3	7567.2	7343.1
7°	7313.0	7375.5	7332.3	7276.7	7056.4	7027.1	6900.3	6857.9	6639.2
8°	6544.1	6633.8	6571.9	6537.2	6329.3	6289.2	6161.6	6133.0	5957.6
9°	5887.4	5917.4	5851.7	5747.5	5627.0	5586.0	5450.7	5422.9	5300.0
10°	5140.1	5233.6	5182.6	5093.0	4950.8	4981.6	4785.5	4762.2	4657.9
11°	4490.2	4588.4	4534.2	4453.9	4325.7	4343.4	4182.7	4085.4	4069.1
12°	3954.0	3998.8	3982.6	3917.6	3814.2	3819.5	3676.5	3598.6	3582.4
13°	3431.7	3512.0	3519.7	3466.4	3342.0	3399.2	3292.5	3229.2	3203.7
14°	3077.8	3138.8	3163.5	3161.9	3027.5	3077.8	2993.6	2942.5	2917.0
15°	2754.7	2834.4	2874.5	2872.1	2759.4	2810.4	2740.1	2699.9	2672.8
16°	2451.9	2560.8	2626.5	2615.6	2510.5	2563.0	2493.6	2454.1	2424.1
17°	2147.4	2297.3	2393.9	2373.0	2263.3	2329.8	2263.3	2229.3	2197.6
18°	1913.2	2036.1	2172.2	2127.3	2005.2	2108.7	2051.5	2024.5	1995.1
19°	1703.1	1787.3	1964.3	1884.6	1774.2	1891.7	1849.1	1827.4	1799.6
20°	1535.4	1608.0	1765.7	1671.4	1577.9	1673.7	1662.1	1645.1	1621.9
21°	1320.6	1458.9	1585.6	1498.2	1375.5	1510.6	1525.4	1516.1	1499.0
22°	1045.5	1294.4	1455.0	1295.8	1135.2	1391.7	1421.8	1414.9	1402.5
23°	813.7	1100.3	1334.5	1109.6	884.1	1259.5	1304.3	1299.7	1258.7
24°	593.4	900.9	1183.0	891.0	636.0	1079.4	1165.2	1157.5	1009.2
25°	391.0	701.6	1044.7	668.5	406.4	873.1	1009.2	996.0	730.2
26°	251.1	513.1	920.4	456.7	216.4	652.2	843.8	806.8	452.9
27°	120.5	357.8	768.1	268.9	105.1	435.0	676.8	594.2	218.7
28°	75.7	187.8	610.5	133.7	71.2	241.8	518.4	377.1	85.8
29°	61.8	92.7	452.1	75.7	58.0	111.3	371.7	183.9	59.5
30°	50.9	61.8	308.3	58.0	47.1	61.8	244.2	71.8	45.6
32.5°	32.5	38.6	71.2	36.3	30.9	35.5	58.0	34.7	28.6
35°	19.3	24.7	30.9	23.9	18.5	23.1	31.7	22.3	17.8
37.5°	11.6	14.6	20.1	14.6	11.6	14.6	20.1	14.6	10.8
40°	6.9	9.3	14.0	9.3	6.9	9.3	14.0	9.3	6.9
42.5°	4.7	5.5	9.3	5.5	3.9	5.5	9.3	6.1	4.7
45°	3.1	3.9	5.5	3.1	2.3	3.1	5.5	3.9	3.1
47.5°	2.3	2.3	3.1	1.6	1.6	2.3	3.9	3.1	2.3
50°	1.6	1.6	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	1.6	1.6	1.6
55°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	1.6	1.6
57.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	1.6	1.6
60°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	1.6	0.0

Classified

Scaled Data Report

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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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Scaled Data Report





— 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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