

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: P1212489

Luminaire Tested: **LDSQA6A25940D010TE LAR35FL 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: P1212489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29057)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A25940D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

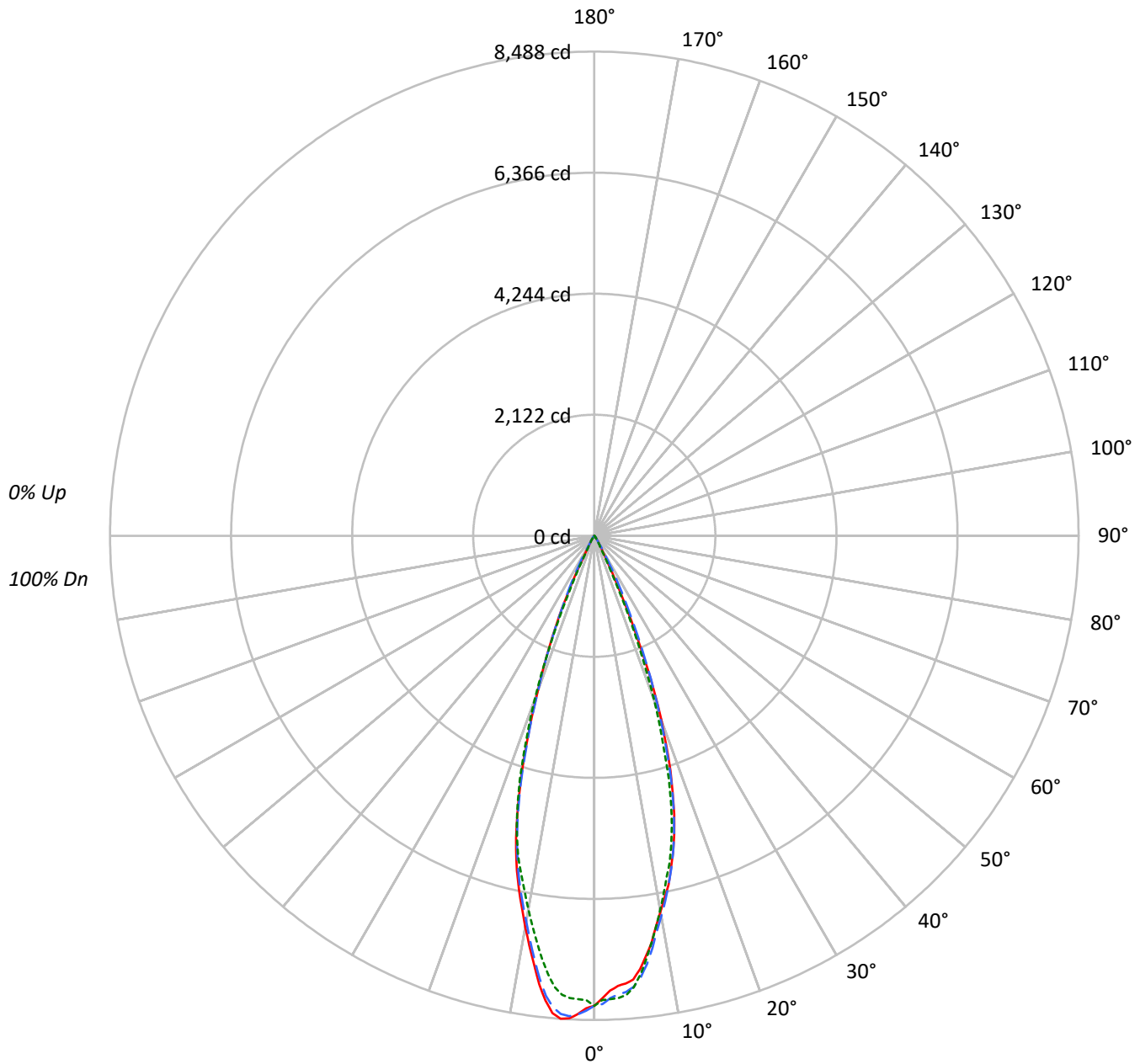
Lumens per Lamp: N/A
Luminaire Lumens: 2744.9 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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	109	113	111	109	107	107	105	104		103	102	101		100
2	111	107	104	102	109	106	103	101	103	100	98		100	98	96		97
3	107	103	99	96	106	101	98	95	99	96	94		96	94	92		94
4	104	98	94	91	102	97	94	91	95	92	90		93	91	89		92
5	101	94	90	87	99	94	90	87	92	89	86		90	88	85		89
6	97	91	87	84	96	90	86	83	89	85	83		88	85	82		87
7	94	88	83	80	93	87	83	80	86	82	80		85	82	79		84
8	92	85	80	77	91	84	80	77	83	80	77		82	79	77		82
9	89	82	78	75	88	82	78	75	81	77	75		80	77	74		79
10	86	79	75	72	86	79	75	72	78	75	72		78	74	72		77

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	354848	354848	354848
5°	337566	343427	363010
10°	292468	290890	304395
15°	241505	233923	234903
20°	157076	139945	133383
25°	47203	36086	48043
30°	10301	7492	7955
35°	3679	2260	2481
40°	1090	708	854
45°	311	201	262
50°	54	54	114
55°	60	0	128
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°	726.0	26.4
10°-20°	1409.2	51.3
20°-30°	556.8	20.3
30°-40°	45.8	1.7
40°-50°	6.3	0.2
50°-60°	0.7	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°	2691.9	98.1
0°-40°	2737.7	99.7
0°-60°	2744.7	100.0
0°-90°	2744.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2744.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8242	8242	8242	8242	8242	
5°	7810	7935	7946	8303	8399	706
15°	5418	5404	5248	5205	5270	1448
25°	994	1343	760	1113	1011	558
35°	70	71	43	60	47	52
45°	5	12	3	9	4	5
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°	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6
1°	8108.5	8015.9	8209.6	8202.0	8141.3	8312.4	8330.1	8440.3	8283.6
2°	7978.0	7904.7	8108.5	8129.6	8129.6	8342.7	8398.3	8536.3	8392.3
3°	7902.2	7841.5	8053.8	8109.4	8115.3	8352.8	8434.5	8589.4	8471.4
4°	7869.3	7813.8	8015.1	8058.1	8066.4	8317.4	8403.3	8580.1	8487.5
5°	7810.4	7748.2	7935.0	7941.8	7946.0	8202.9	8303.1	8478.2	8399.1
6°	7643.6	7610.9	7781.8	7744.7	7733.0	8007.5	8109.4	8272.7	8192.8
7°	7425.7	7403.7	7564.5	7508.1	7478.6	7734.6	7828.9	7983.9	7920.8
8°	7202.5	7149.4	7302.6	7253.8	7204.1	7424.7	7507.3	7650.4	7591.5
9°	6923.7	6896.7	7010.4	6994.5	6927.0	7153.5	7183.9	7323.6	7275.8
10°	6689.6	6656.8	6771.3	6741.0	6653.5	6851.2	6872.4	7006.2	6962.4
11°	6462.2	6419.2	6517.0	6478.3	6379.7	6557.4	6571.7	6696.3	6651.7
12°	6253.4	6183.6	6260.2	6213.8	6109.4	6266.0	6272.8	6389.9	6348.6
13°	5977.2	5930.9	5991.5	5941.8	5875.3	5963.7	5950.3	6061.3	6023.6
14°	5711.2	5653.0	5708.6	5648.8	5579.0	5637.9	5599.0	5696.0	5666.5
15°	5418.0	5359.9	5403.8	5330.5	5247.9	5269.9	5205.0	5295.1	5269.9
16°	5077.0	5018.9	5056.8	4967.6	4869.8	4857.2	4771.4	4850.5	4824.3
17°	4692.1	4650.1	4676.1	4564.2	4461.5	4417.6	4304.0	4373.8	4347.8
18°	4325.8	4243.4	4254.3	4129.7	3973.0	3946.1	3818.0	3884.5	3858.5
19°	3845.8	3807.1	3813.0	3672.4	3514.1	3464.4	3337.2	3396.2	3366.8
20°	3428.2	3369.3	3364.2	3211.8	3054.3	3002.1	2879.2	2939.7	2911.1
21°	2950.7	2986.9	2923.7	2762.9	2568.4	2573.4	2464.8	2470.7	2490.0
22°	2413.4	2545.6	2491.8	2301.4	2058.0	2170.0	2072.4	2079.2	2095.9
23°	1882.1	2019.3	2068.2	1837.4	1573.0	1796.2	1718.8	1723.8	1734.7
24°	1397.0	1590.7	1678.3	1413.9	1132.6	1445.0	1401.3	1407.1	1395.3
25°	993.6	1221.1	1343.2	1044.2	759.6	1122.5	1113.2	1122.5	1011.3
26°	671.1	920.4	1059.3	732.6	469.9	829.5	885.9	865.7	656.0
27°	429.5	699.8	814.4	479.2	298.1	571.0	661.0	655.2	376.4
28°	302.3	485.8	601.3	294.7	230.0	358.7	472.4	431.2	240.9
29°	255.1	315.7	419.3	209.7	187.0	212.3	316.7	251.8	197.1
30°	207.2	209.7	275.3	169.3	150.7	151.6	202.2	165.1	160.0
32.5°	126.4	125.4	118.8	99.4	88.4	88.4	98.6	95.1	94.3
35°	70.0	76.6	70.8	59.8	43.0	53.1	59.8	56.4	47.2
37.5°	37.9	44.7	48.8	32.9	23.5	31.1	40.4	32.9	27.0
40°	19.4	24.5	34.6	18.5	12.6	17.7	27.8	18.5	15.2
42.5°	10.1	13.4	21.9	10.1	5.9	10.1	17.7	10.1	7.6
45°	5.1	6.8	11.8	5.1	3.3	5.1	9.3	5.9	4.3
47.5°	2.5	3.3	5.9	2.5	0.8	2.5	5.1	2.5	2.5
50°	0.8	1.7	3.3	0.8	0.8	0.8	2.5	1.7	1.7
52.5°	0.8	0.8	1.7	0.8	0.0	0.8	1.7	0.8	1.7
55°	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	1.7
57.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	1.7
60°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	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

Classified

Scaled Data Report

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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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Scaled Data Report



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