

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: P1212531

Luminaire Tested: **LDSQA6A35935D010TE 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: P1212531
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: LDSQA6A35935D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

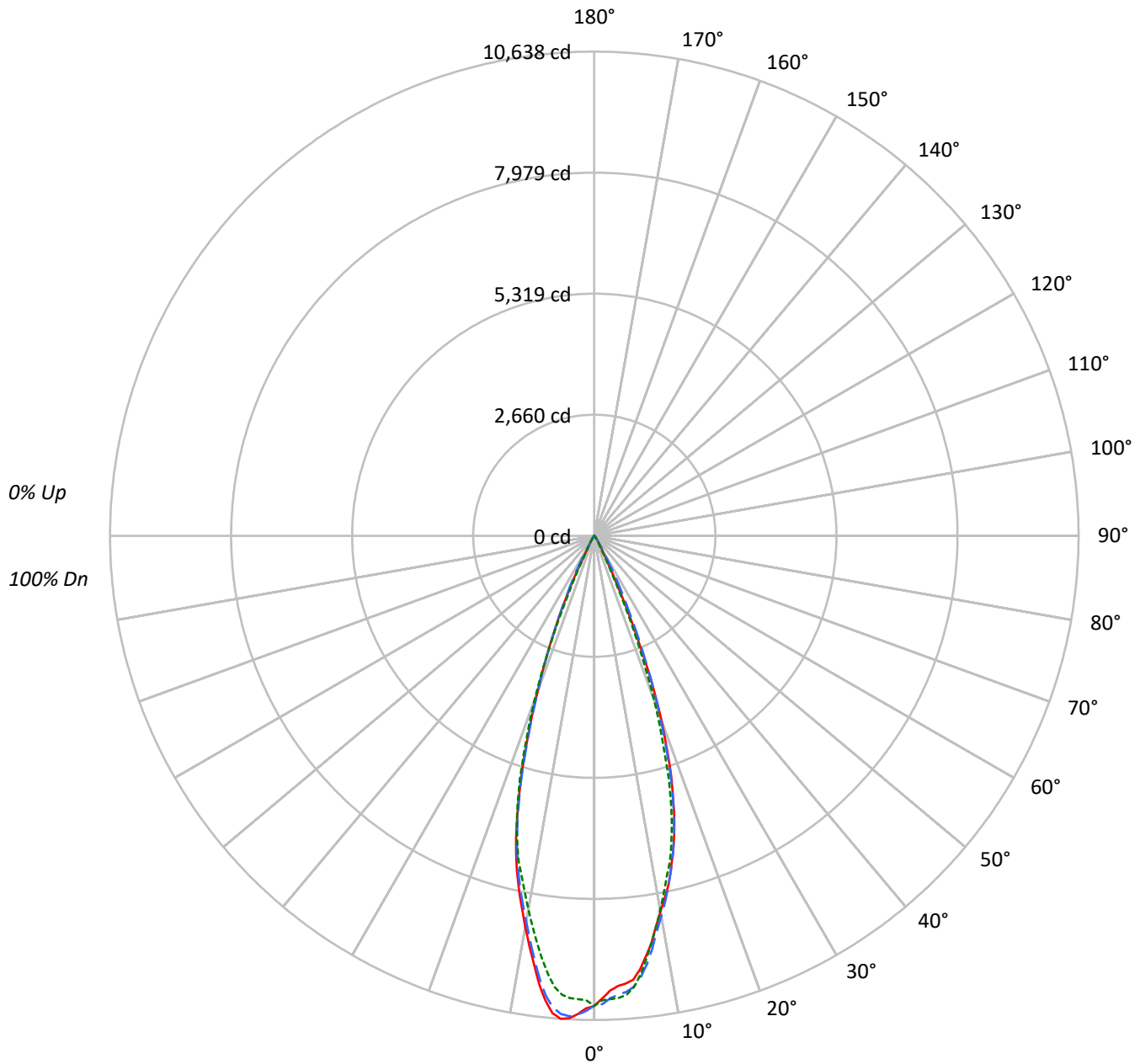
Lumens per Lamp: N/A
Luminaire Lumens: 3440.7 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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	93	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°	444782	444782	444782
5°	423125	430468	455013
10°	366595	364615	381548
15°	302714	293216	294437
20°	196884	175413	167193
25°	59174	45226	60224
30°	12911	9396	9968
35°	4610	2828	3101
40°	1366	888	1074
45°	384	250	317
50°	74	74	147
55°	83	0	165
60°	95	0	0
65°	112	0	0
70°	138	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°	910.0	26.4
10°-20°	1766.3	51.3
20°-30°	697.9	20.3
30°-40°	57.4	1.7
40°-50°	7.9	0.2
50°-60°	0.9	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°	3374.2	98.1
0°-40°	3431.6	99.7
0°-60°	3440.4	100.0
0°-90°	3440.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3440.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10330	10330	10330	10330	10330	
5°	9790	9946	9960	10407	10528	885
15°	6791	6773	6578	6524	6606	1815
25°	1246	1684	952	1395	1268	700
35°	88	89	54	75	59	66
45°	6	15	4	12	5	7
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°	10330.4	10330.4	10330.4	10330.4	10330.4	10330.4	10330.4	10330.4	10330.4
1°	10163.7	10047.6	10290.2	10280.7	10204.7	10419.1	10441.3	10579.5	10383.1
2°	10000.1	9908.1	10163.7	10190.0	10190.0	10457.1	10526.8	10699.7	10519.4
3°	9905.0	9829.1	10094.9	10164.6	10172.0	10469.7	10572.1	10766.3	10618.6
4°	9863.8	9794.2	10046.5	10100.3	10110.8	10425.4	10533.1	10754.6	10638.5
5°	9790.0	9711.9	9946.3	9954.5	9959.9	10281.8	10407.4	10627.0	10527.8
6°	9581.0	9539.8	9754.0	9707.6	9692.8	10037.0	10164.6	10369.4	10269.2
7°	9307.6	9280.1	9481.7	9411.1	9374.0	9695.0	9813.2	10007.5	9928.3
8°	9027.9	8961.3	9153.5	9092.3	9030.1	9306.5	9410.0	9589.5	9515.5
9°	8678.5	8644.7	8787.2	8767.1	8682.7	8966.7	9004.7	9179.8	9119.7
10°	8385.1	8343.9	8487.5	8449.4	8339.8	8587.8	8614.1	8782.0	8727.1
11°	8100.0	8046.2	8168.8	8120.2	7996.7	8219.3	8237.3	8393.6	8337.6
12°	7838.3	7750.6	7846.7	7788.8	7657.7	7854.1	7862.6	8009.3	7957.6
13°	7492.1	7434.0	7510.0	7447.7	7364.3	7475.2	7458.3	7597.6	7550.1
14°	7158.6	7085.7	7155.4	7080.5	6992.8	7066.8	7018.2	7139.5	7102.6
15°	6791.2	6718.3	6773.2	6681.4	6578.1	6605.5	6524.1	6637.1	6605.5
16°	6363.7	6290.8	6338.3	6226.6	6104.2	6088.3	5980.5	6079.9	6047.1
17°	5881.3	5828.6	5861.3	5720.9	5592.2	5537.3	5394.8	5482.4	5449.7
18°	5422.1	5318.8	5332.5	5176.3	4979.9	4946.2	4785.7	4869.2	4836.4
19°	4820.6	4772.0	4779.4	4603.1	4404.8	4342.5	4183.0	4257.0	4219.9
20°	4297.0	4223.2	4216.9	4025.7	3828.4	3762.9	3608.8	3684.8	3649.0
21°	3698.5	3744.0	3664.8	3463.2	3219.3	3225.6	3089.5	3096.9	3121.2
22°	3025.1	3190.9	3123.4	2884.7	2579.8	2720.2	2597.6	2606.0	2627.3
23°	2359.1	2531.2	2592.4	2303.1	1971.7	2251.4	2154.2	2160.7	2174.4
24°	1751.0	1993.9	2103.7	1772.3	1419.7	1811.3	1756.4	1763.8	1749.1
25°	1245.6	1530.5	1683.5	1308.8	952.0	1407.1	1395.4	1407.1	1267.7
26°	841.3	1153.6	1327.9	918.4	589.0	1039.7	1110.4	1085.0	822.2
27°	538.4	877.1	1020.6	600.7	373.7	715.7	828.5	821.2	471.8
28°	378.9	609.1	753.7	369.4	288.2	449.6	592.2	540.4	301.9
29°	319.9	395.8	525.6	262.8	234.4	266.0	396.9	315.5	247.0
30°	259.7	262.8	345.2	212.2	189.0	190.1	253.3	206.8	200.5
32.5°	158.4	157.3	148.9	124.6	110.9	110.9	123.5	119.3	118.3
35°	87.7	96.1	88.7	74.9	53.8	66.4	74.9	70.7	59.0
37.5°	47.5	56.0	61.2	41.2	29.5	39.1	50.6	41.2	33.8
40°	24.3	30.6	43.2	23.2	15.8	22.1	34.9	23.2	19.1
42.5°	12.6	16.9	27.4	12.6	7.4	12.6	22.1	12.6	9.5
45°	6.3	8.5	14.8	6.3	4.1	6.3	11.7	7.4	5.2
47.5°	3.2	4.1	7.4	3.2	1.1	3.2	6.3	3.2	3.2
50°	1.1	2.2	4.1	1.1	1.1	1.1	3.2	2.2	2.2
52.5°	1.1	1.1	2.2	1.1	0.0	1.1	2.2	1.1	2.2
55°	1.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	2.2
57.5°	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	2.2
60°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1.1	1.1	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°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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