

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: P1219590

Luminaire Tested: **LDSQA6A15950D010TE LAR35FL 6LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219590
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: LDSQA6A15950D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

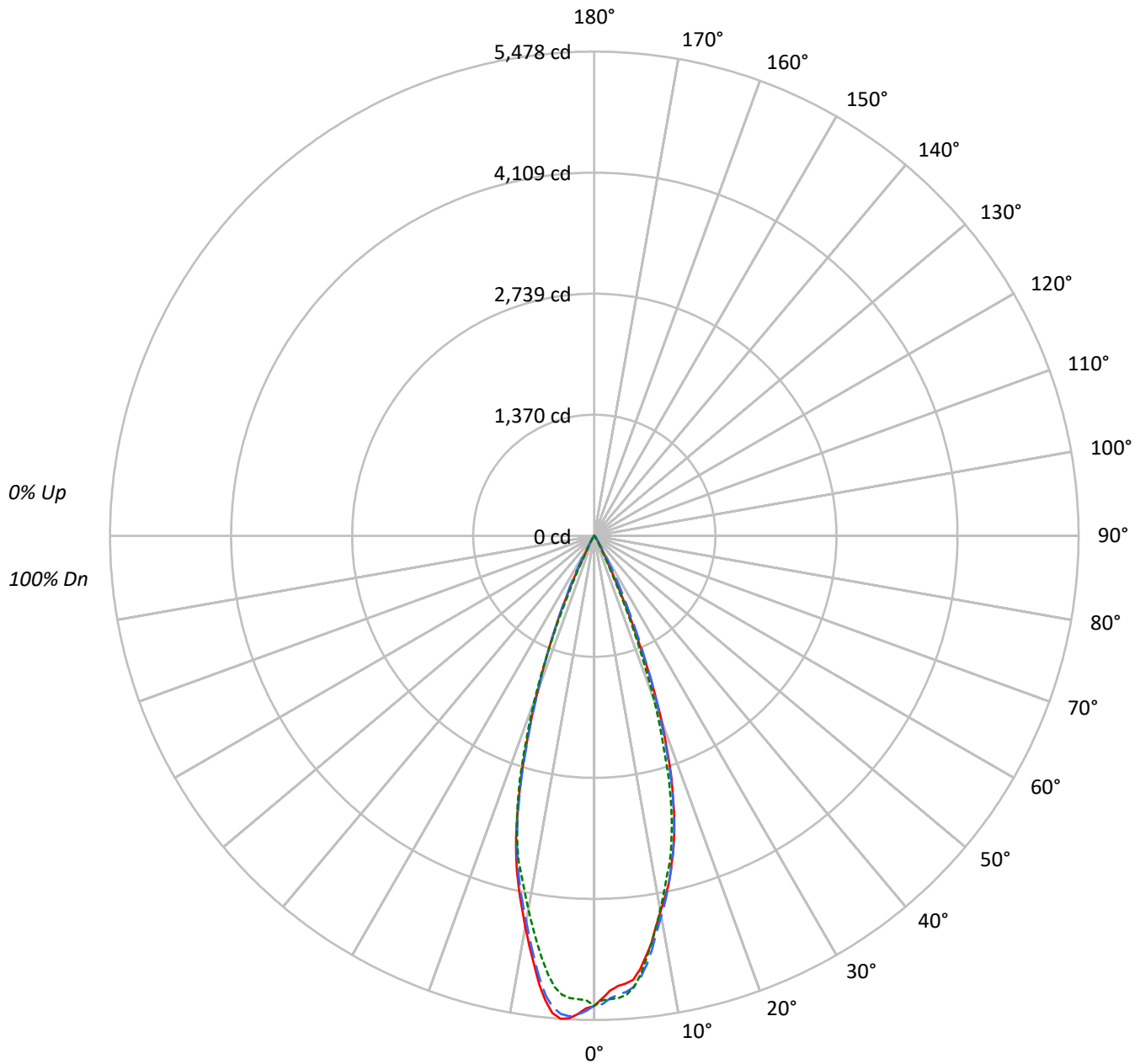
Lumens per Lamp: N/A
Luminaire Lumens: 1771.7 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20.5
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



Cooper Lighting Solutions Photometric Lab

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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	100	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93	93	93
3	107	103	99	96	106	101	98	95	99	96	94	96	94	92	94	92	91	90	90	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	89	88	86	86	86
5	101	94	90	87	99	94	90	87	92	89	86	90	88	85	89	87	85	83	83	83
6	97	91	87	84	96	90	86	83	89	85	83	88	85	82	87	84	82	81	81	81
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78	78	78
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76	75	75	75
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73	73	73
10	86	79	75	72	86	79	75	72	78	75	72	78	74	72	77	74	72	71	71	71

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	229039	229039	229039
5°	217886	221672	234309
10°	188778	187755	196477
15°	155881	150992	151620
20°	101388	90327	86098
25°	30471	23293	31012
30°	6647	4837	5136
35°	2371	1461	1603
40°	703	455	551
45°	195	134	164
50°	33	33	67
55°	38	0	75
60°	43	0	0
65°	51	0	0
70°	63	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°	468.6	26.4
10°-20°	909.6	51.3
20°-30°	359.4	20.3
30°-40°	29.6	1.7
40°-50°	4.0	0.2
50°-60°	0.4	0.0
60°-70°	0.1	0.0
70°-80°	0.0	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°	1737.5	98.1
0°-40°	1767.1	99.7
0°-60°	1771.6	100.0
0°-90°	1771.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1771.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5320	5320	5320	5320	5320	
5°	5041	5122	5129	5359	5421	456
15°	3497	3488	3387	3360	3402	935
25°	641	867	490	718	653	360
35°	45	46	28	39	30	34
45°	3	8	2	6	3	3
55°	0	0	0	0	1	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	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°	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6	5319.6
1°	5233.8	5174.0	5299.0	5294.1	5254.9	5365.3	5376.7	5447.9	5346.8
2°	5149.6	5102.2	5233.8	5247.3	5247.3	5384.9	5420.7	5509.9	5416.9
3°	5100.6	5061.5	5198.4	5234.3	5238.1	5391.4	5444.1	5544.1	5468.0
4°	5079.4	5043.5	5173.5	5201.1	5206.6	5368.6	5424.0	5538.1	5478.3
5°	5041.3	5001.2	5121.8	5126.2	5128.9	5294.6	5359.3	5472.4	5421.3
6°	4933.8	4912.5	5022.9	4999.0	4991.4	5168.5	5234.3	5339.8	5288.1
7°	4792.9	4778.8	4882.6	4846.2	4827.2	4992.4	5053.3	5153.3	5112.5
8°	4648.9	4614.7	4713.6	4682.1	4650.0	4792.4	4845.7	4938.0	4900.1
9°	4469.0	4451.6	4524.9	4514.6	4471.2	4617.4	4636.9	4727.2	4696.2
10°	4317.9	4296.7	4370.6	4351.0	4294.5	4422.3	4435.8	4522.2	4494.0
11°	4171.1	4143.5	4206.5	4181.4	4117.9	4232.6	4241.8	4322.2	4293.4
12°	4036.3	3991.2	4040.7	4010.8	3943.4	4044.5	4048.8	4124.4	4097.8
13°	3858.1	3828.1	3867.3	3835.2	3792.3	3849.4	3840.6	3912.4	3887.9
14°	3686.3	3648.8	3684.6	3646.0	3601.0	3639.0	3614.0	3676.5	3657.5
15°	3497.1	3459.7	3488.0	3440.6	3387.4	3401.5	3359.6	3417.8	3401.5
16°	3277.0	3239.5	3263.9	3206.3	3143.3	3135.2	3079.8	3130.8	3114.0
17°	3028.6	3001.4	3018.3	2946.0	2879.7	2851.4	2778.0	2823.2	2806.3
18°	2792.2	2738.9	2746.0	2665.5	2564.4	2547.1	2464.4	2507.3	2490.5
19°	2482.4	2457.3	2461.2	2370.4	2268.2	2236.1	2154.0	2192.1	2173.1
20°	2212.8	2174.7	2171.4	2073.0	1971.4	1937.7	1858.4	1897.5	1879.1
21°	1904.6	1928.0	1887.2	1783.4	1657.8	1661.1	1591.0	1594.7	1607.2
22°	1557.8	1643.1	1608.4	1485.5	1328.4	1400.7	1337.6	1342.0	1352.8
23°	1214.8	1303.4	1334.9	1186.0	1015.4	1159.4	1109.4	1112.6	1119.7
24°	901.8	1026.8	1083.3	912.6	731.0	932.7	904.5	908.2	900.6
25°	641.4	788.1	866.9	674.0	490.3	724.6	718.5	724.6	652.8
26°	433.2	594.0	683.8	472.9	303.3	535.4	571.8	558.8	423.4
27°	277.2	451.7	525.6	309.3	192.4	368.5	426.7	422.9	242.9
28°	195.1	313.7	388.1	190.2	148.4	231.5	304.9	278.3	155.5
29°	164.7	203.8	270.7	135.3	120.6	137.0	204.4	162.6	127.2
30°	133.7	135.3	177.7	109.2	97.3	97.9	130.4	106.5	103.3
32.5°	81.5	81.0	76.6	64.2	57.1	57.1	63.5	61.5	60.8
35°	45.1	49.5	45.7	38.6	27.8	34.2	38.6	36.4	30.5
37.5°	24.4	28.8	31.5	21.2	15.2	20.1	26.1	21.2	17.4
40°	12.5	15.8	22.3	12.0	8.1	11.4	17.9	12.0	9.8
42.5°	6.6	8.7	14.1	6.6	3.8	6.6	11.4	6.6	4.9
45°	3.2	4.4	7.6	3.2	2.2	3.2	5.9	3.8	2.7
47.5°	1.7	2.2	3.8	1.7	0.5	1.7	3.2	1.7	1.7
50°	0.5	1.0	2.2	0.5	0.5	0.5	1.7	1.0	1.0
52.5°	0.5	0.5	1.0	0.5	0.0	0.5	1.0	0.5	1.0
55°	0.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	1.0
57.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	1.0
60°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	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°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.5	0.5	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°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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