

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: P208785

Luminaire Tested: **LDSQA6A10930D010TE LAR35FL 6LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208785
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: LDSQA6A10930D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1044.7 lumens
Efficiency: N/A
Efficacy: 76.1 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

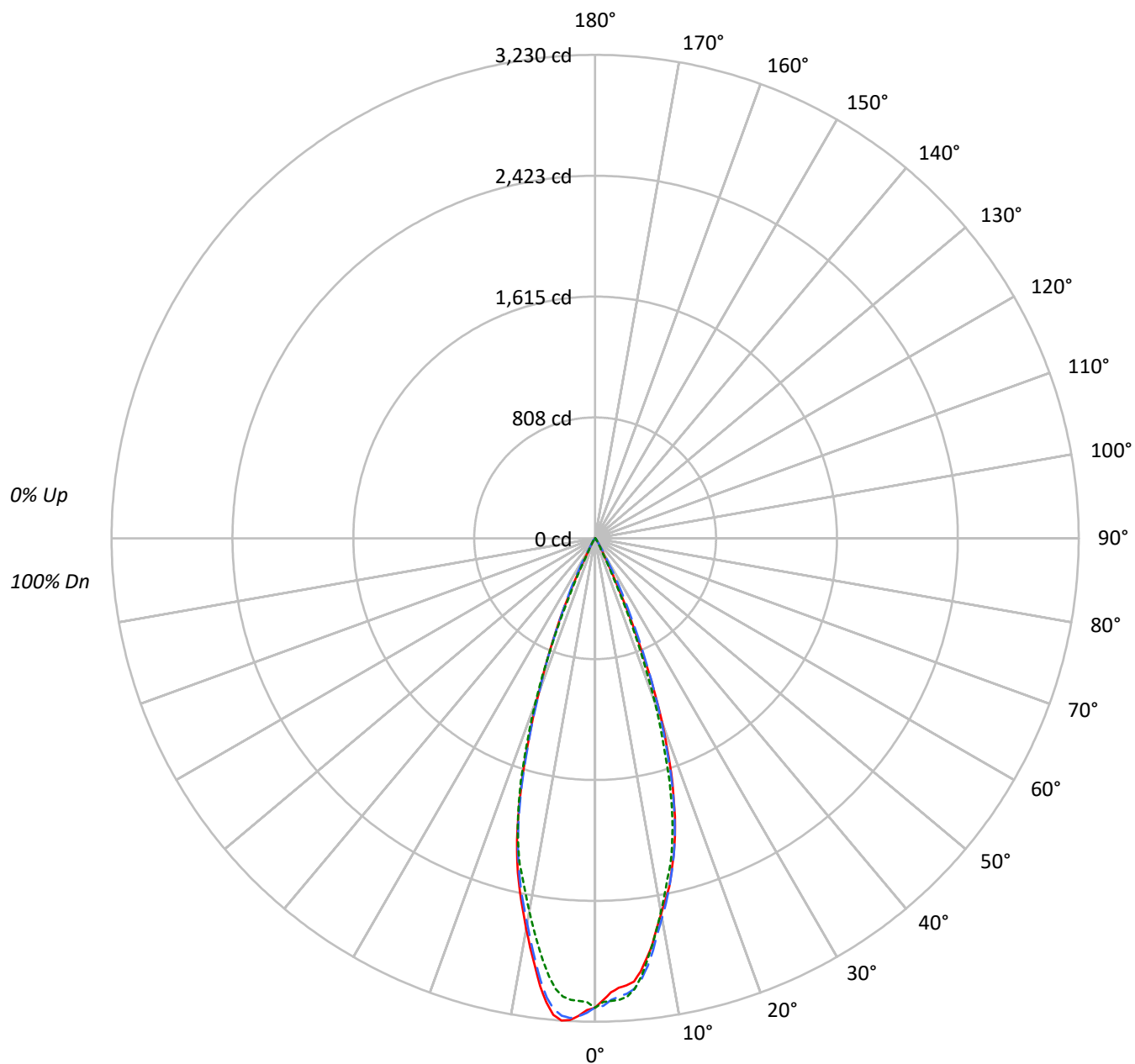
Input Watts (W): 13.73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	135053	135053	135053
5°	128476	130706	138157
10°	111311	110707	115853
15°	91917	89029	89403
20°	59780	53260	50767
25°	17967	13734	18285
30°	3918	2854	3028
35°	1398	857	941
40°	416	270	326
45°	116	79	97
50°	20	20	40
55°	23	0	45
60°	26	0	0
65°	31	0	0
70°	38	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°	276.3	26.4
10°-20°	536.3	51.3
20°-30°	211.9	20.3
30°-40°	17.4	1.7
40°-50°	2.4	0.2
50°-60°	0.3	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°	1024.5	98.1
0°-40°	1042.0	99.7
0°-60°	1044.6	100.0
0°-90°	1044.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3137	3137	3137	3137	3137	
5°	2973	3020	3024	3160	3197	269
15°	2062	2057	1997	1981	2006	551
25°	378	511	289	424	385	212
35°	27	27	16	23	18	20
45°	2	4	1	4	2	2
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°	3136.7	3136.7	3136.7	3136.7	3136.7	3136.7	3136.7	3136.7	3136.7
1°	3086.0	3050.8	3124.5	3121.6	3098.5	3163.6	3170.3	3212.3	3152.7
2°	3036.4	3008.5	3086.0	3094.1	3094.1	3175.1	3196.3	3248.9	3194.1
3°	3007.5	2984.4	3065.2	3086.4	3088.6	3179.0	3210.1	3269.0	3224.2
4°	2995.0	2973.9	3050.5	3066.8	3070.0	3165.5	3198.2	3265.5	3230.3
5°	2972.6	2948.9	3020.0	3022.6	3024.2	3121.9	3160.1	3226.7	3196.6
6°	2909.1	2896.6	2961.7	2947.6	2943.1	3047.6	3086.4	3148.5	3118.1
7°	2826.1	2817.8	2879.0	2857.5	2846.3	2943.7	2979.6	3038.6	3014.6
8°	2741.2	2721.0	2779.3	2760.7	2741.8	2825.8	2857.2	2911.7	2889.3
9°	2635.1	2624.9	2668.1	2662.0	2636.4	2722.6	2734.1	2787.3	2769.1
10°	2546.0	2533.5	2577.1	2565.6	2532.2	2607.5	2615.6	2666.5	2649.9
11°	2459.5	2443.1	2480.3	2465.6	2428.1	2495.7	2501.1	2548.6	2531.6
12°	2380.0	2353.4	2382.6	2364.9	2325.2	2384.8	2387.4	2431.9	2416.2
13°	2274.9	2257.2	2280.3	2261.4	2236.1	2269.7	2264.6	2306.9	2292.5
14°	2173.6	2151.5	2172.6	2149.9	2123.3	2145.7	2131.0	2167.8	2156.6
15°	2062.1	2040.0	2056.6	2028.7	1997.3	2005.7	1981.0	2015.3	2005.7
16°	1932.3	1910.1	1924.6	1890.6	1853.4	1848.6	1815.9	1846.1	1836.1
17°	1785.8	1769.8	1779.7	1737.1	1698.0	1681.3	1638.0	1664.7	1654.7
18°	1646.4	1615.0	1619.1	1571.7	1512.1	1501.8	1453.1	1478.4	1468.5
19°	1463.7	1449.0	1451.2	1397.7	1337.4	1318.5	1270.1	1292.6	1281.3
20°	1304.7	1282.3	1280.4	1222.4	1162.4	1142.6	1095.8	1118.8	1108.0
21°	1123.0	1136.8	1112.8	1051.5	977.5	979.4	938.1	940.3	947.7
22°	918.5	968.9	948.3	875.9	783.3	825.9	788.7	791.3	797.7
23°	716.3	768.5	787.1	699.3	598.7	683.6	654.1	656.1	660.2
24°	531.7	605.4	638.7	538.1	431.1	550.0	533.3	535.5	531.1
25°	378.2	464.7	511.2	397.4	289.1	427.2	423.7	427.2	384.9
26°	255.4	350.3	403.2	278.8	178.8	315.7	337.2	329.5	249.7
27°	163.5	266.3	309.9	182.4	113.5	217.3	251.6	249.3	143.3
28°	115.1	184.9	228.8	112.2	87.5	136.5	179.8	164.1	91.7
29°	97.1	120.2	159.6	79.8	71.1	80.8	120.5	95.8	75.0
30°	78.8	79.8	104.8	64.4	57.4	57.7	76.9	62.8	60.9
32.5°	48.1	47.8	45.2	37.8	33.7	33.7	37.5	36.2	35.9
35°	26.6	29.2	26.9	22.8	16.3	20.2	22.8	21.5	17.9
37.5°	14.4	17.0	18.6	12.5	9.0	11.9	15.4	12.5	10.3
40°	7.4	9.3	13.1	7.1	4.8	6.7	10.6	7.1	5.8
42.5°	3.8	5.1	8.3	3.8	2.2	3.8	6.7	3.8	2.9
45°	1.9	2.6	4.5	1.9	1.3	1.9	3.5	2.2	1.6
47.5°	1.0	1.3	2.2	1.0	0.3	1.0	1.9	1.0	1.0
50°	0.3	0.6	1.3	0.3	0.3	0.3	1.0	0.6	0.6
52.5°	0.3	0.3	0.6	0.3	0.0	0.3	0.6	0.3	0.6
55°	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.6
57.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.6
60°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.3	0.3	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°







62.5°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)