

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: P208791

Luminaire Tested: **LDSQA6A15840D010TE LAR35FL 6LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P208791
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: LDSQA6A15840D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2027.7 lumens
Efficiency: N/A
Efficacy: 93.1 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

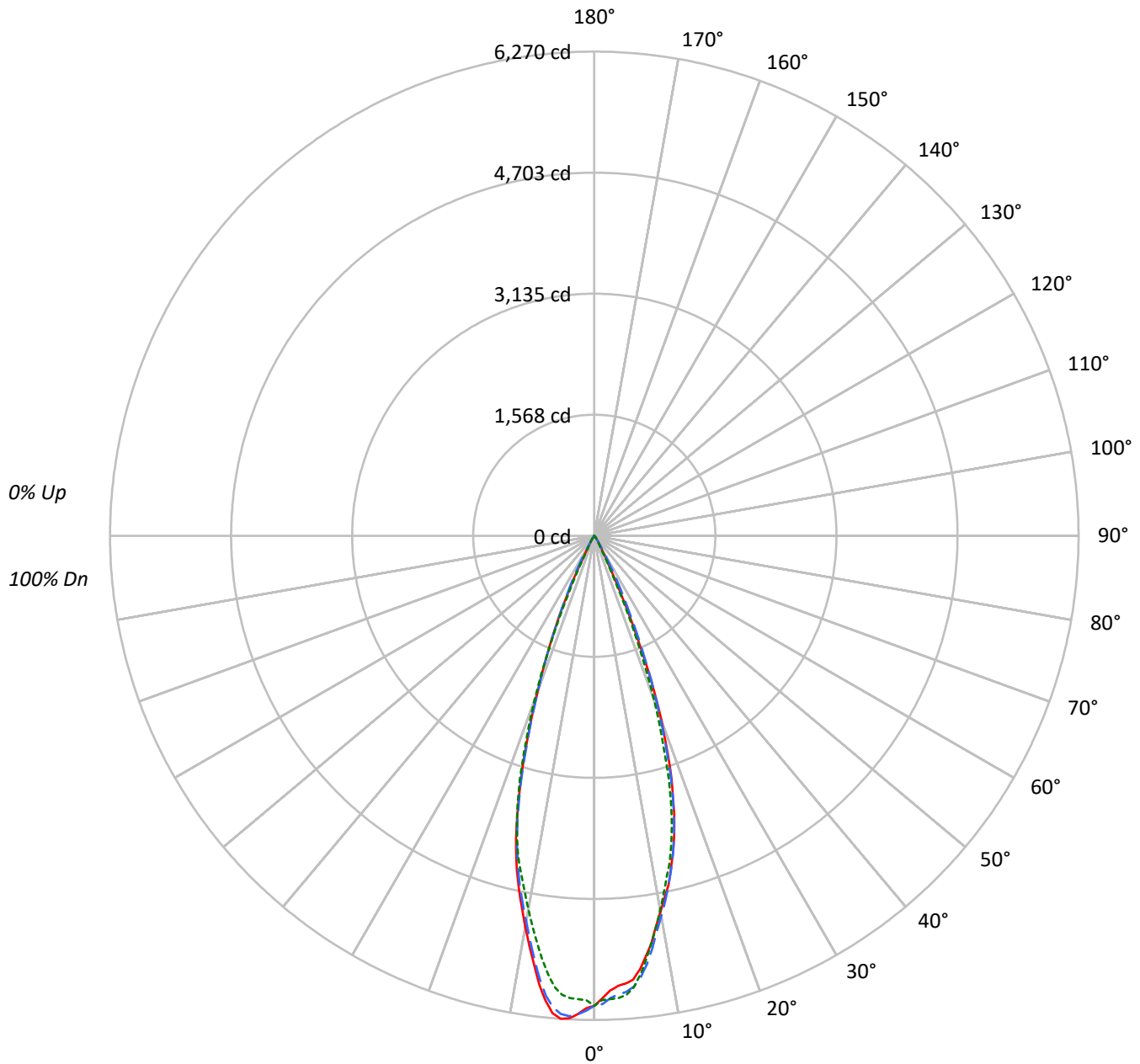
Input Watts (W): 21.79
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	262123	262123	262123
5°	249359	253689	268151
10°	216046	214874	224856
15°	178401	172798	173520
20°	116032	103377	98529
25°	34870	26656	35492
30°	7607	5533	5876
35°	2712	1666	1829
40°	804	523	629
45°	225	152	189
50°	40	40	80
55°	45	0	90
60°	52	0	0
65°	61	0	0
70°	76	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°	536.3	26.4
10°-20°	1040.9	51.3
20°-30°	411.3	20.3
30°-40°	33.8	1.7
40°-50°	4.6	0.2
50°-60°	0.5	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°	1988.5	98.1
0°-40°	2022.3	99.7
0°-60°	2027.5	100.0
0°-90°	2027.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6088	6088	6088	6088	6088	
5°	5770	5862	5870	6133	6204	522
15°	4002	3992	3877	3845	3893	1070
25°	734	992	561	822	747	412
35°	52	52	32	44	35	39
45°	4	9	2	7	3	4
55°	1	1	0	1	1	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°	6088.0	6088.0	6088.0	6088.0	6088.0	6088.0	6088.0	6088.0	6088.0
1°	5989.7	5921.3	6064.4	6058.8	6014.0	6140.2	6153.3	6234.8	6119.1
2°	5893.3	5839.2	5989.7	6005.3	6005.3	6162.6	6203.7	6305.7	6199.3
3°	5837.3	5792.5	5949.3	5990.3	5994.7	6170.1	6230.4	6344.9	6257.8
4°	5813.0	5772.0	5920.7	5952.4	5958.6	6144.0	6207.4	6338.1	6269.6
5°	5769.5	5723.5	5861.6	5866.5	5869.7	6059.4	6133.4	6262.8	6204.3
6°	5646.3	5622.1	5748.4	5721.0	5712.3	5915.1	5990.3	6111.0	6051.9
7°	5485.2	5469.1	5587.9	5546.2	5524.4	5713.5	5783.2	5897.6	5851.0
8°	5320.4	5281.2	5394.4	5358.3	5321.6	5484.6	5545.6	5651.3	5607.8
9°	5114.5	5094.6	5178.6	5166.7	5117.0	5284.3	5306.7	5410.0	5374.5
10°	4941.6	4917.3	5001.9	4979.5	4914.8	5061.0	5076.5	5175.4	5143.1
11°	4773.6	4741.9	4814.0	4785.4	4712.6	4843.9	4854.5	4946.5	4913.6
12°	4619.3	4567.7	4624.3	4590.1	4513.0	4628.7	4633.6	4720.1	4689.6
13°	4415.3	4381.1	4425.9	4389.2	4340.0	4405.4	4395.4	4477.5	4449.5
14°	4218.7	4175.8	4216.9	4172.7	4121.1	4164.6	4136.0	4207.5	4185.8
15°	4002.3	3959.3	3991.7	3937.6	3876.6	3892.8	3844.9	3911.4	3892.8
16°	3750.3	3707.4	3735.4	3669.5	3597.3	3588.0	3524.5	3583.0	3563.7
17°	3466.1	3435.0	3454.2	3371.5	3295.6	3263.3	3179.3	3230.9	3211.6
18°	3195.5	3134.5	3142.6	3050.5	2934.8	2914.9	2820.4	2869.5	2850.2
19°	2840.9	2812.3	2816.6	2712.8	2595.8	2559.1	2465.2	2508.7	2487.0
20°	2532.4	2488.8	2485.1	2372.5	2256.2	2217.6	2126.8	2171.6	2150.4
21°	2179.7	2206.4	2159.8	2040.9	1897.2	1901.0	1820.7	1825.1	1839.4
22°	1782.8	1880.5	1840.6	1700.1	1520.3	1603.0	1530.9	1535.8	1548.3
23°	1390.3	1491.7	1527.8	1357.3	1162.0	1326.8	1269.6	1273.3	1281.4
24°	1032.0	1175.1	1239.7	1044.4	836.7	1067.4	1035.1	1039.4	1030.7
25°	734.0	902.0	992.2	771.3	561.1	829.2	822.3	829.2	747.1
26°	495.8	679.9	782.5	541.2	347.1	612.7	654.4	639.5	484.6
27°	317.2	516.9	601.5	353.9	220.2	421.7	488.3	484.0	278.1
28°	223.3	358.9	444.1	217.7	169.8	265.0	349.0	318.5	177.9
29°	188.5	233.3	309.8	154.9	138.1	156.8	233.9	186.0	145.6
30°	153.0	154.9	203.4	125.0	111.3	112.0	149.3	121.9	118.2
32.5°	93.3	92.7	87.7	73.4	65.3	65.3	72.8	70.3	69.7
35°	51.6	56.6	52.3	44.2	31.7	39.2	44.2	41.7	34.8
37.5°	28.0	33.0	36.1	24.3	17.4	23.0	29.9	24.3	19.9
40°	14.3	18.0	25.5	13.7	9.3	13.1	20.5	13.7	11.2
42.5°	7.5	10.0	16.2	7.5	4.4	7.5	13.1	7.5	5.6
45°	3.7	5.0	8.7	3.7	2.5	3.7	6.8	4.4	3.1
47.5°	1.9	2.5	4.4	1.9	0.6	1.9	3.7	1.9	1.9
50°	0.6	1.2	2.5	0.6	0.6	0.6	1.9	1.2	1.2
52.5°	0.6	0.6	1.2	0.6	0.0	0.6	1.2	0.6	1.2
55°	0.6	0.6	0.6	0.0	0.0	0.6	0.6	0.6	1.2
57.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	1.2
60°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.6	0.6	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°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)