

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: P182598

Luminaire Tested: **LDSQA4A28827D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26798)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A28827D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2879.2 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

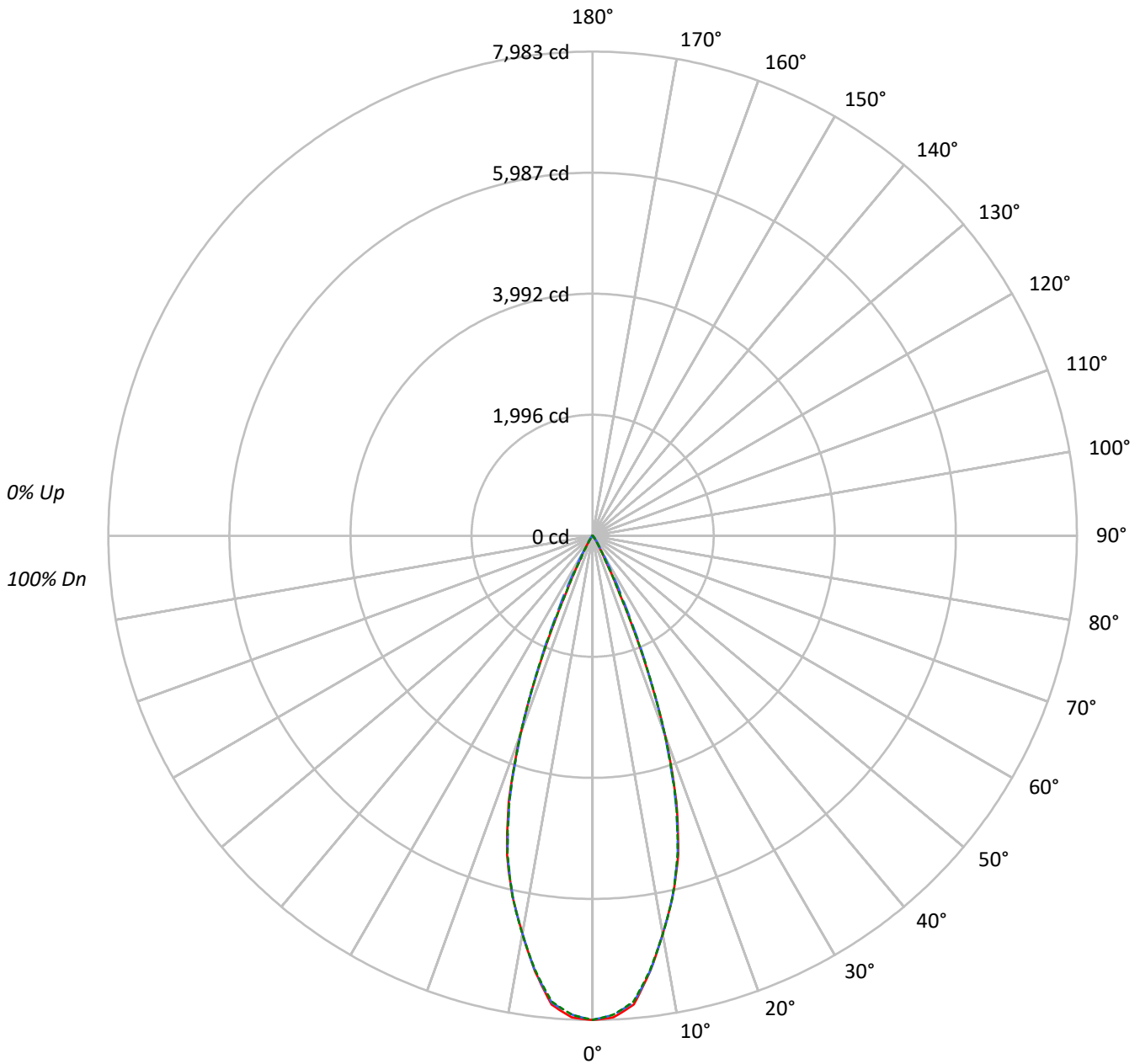
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
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	112	110	109	107	106	105	104	103	102	101	99	99	98	96								
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92								
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89								
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86								
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	84	82								
6	97	90	86	82	95	89	85	82	88	84	82	87	83	81	85	83	81	79								
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77								
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74								
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72								
10	85	78	74	71	84	78	74	71	77	73	71	76	73	70	76	72	70	69								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	773376	773376	773376
5°	754664	751328	749918
10°	655350	655222	655999
15°	546646	543738	543467
20°	358567	355711	358835
25°	109648	138679	109220
30°	27429	33189	26847
35°	8893	13719	8728
40°	4173	6500	3667
45°	2165	2713	1630
50°	1191	1387	799
55°	676	895	439
60°	504	504	504
65°	298	298	298
70°	368	368	368
75°	0	487	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.3	24.4
10°-20°	1453.2	50.5
20°-30°	634.6	22.0
30°-40°	69.3	2.4
40°-50°	14.3	0.5
50°-60°	4.0	0.1
60°-70°	1.6	0.1
70°-80°	0.9	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°	2789.1	96.9
0°-40°	2858.4	99.3
0°-60°	2876.7	99.9
0°-90°	2879.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2879.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7983	7983	7983	7983	7983	
5°	7760	7739	7726	7746	7712	702
15°	5450	5427	5422	5429	5419	1458
25°	1026	1264	1297	1276	1022	594
35°	75	90	116	88	74	59
45°	16	17	20	14	12	13
55°	4	4	5	3	3	4
65°	1	1	1	1	1	1
75°	0	1	1	0	0	1
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°
0°	7983.2	7983.2	7983.2	7983.2	7983.2
2.5°	7947.6	7918.6	7902.8	7937.1	7902.8
5°	7760.4	7739.3	7726.1	7745.9	7711.6
7.5°	7247.5	7226.4	7244.9	7244.9	7227.8
10°	6662.1	6650.3	6660.8	6688.5	6668.7
12.5°	6093.9	6084.7	6088.6	6117.6	6095.2
15°	5450.5	5426.7	5421.5	5429.4	5418.8
17.5°	4593.5	4557.9	4535.5	4553.9	4559.2
20°	3478.1	3478.1	3450.4	3466.2	3480.7
22.5°	2224.2	2275.6	2280.9	2278.3	2269.1
25°	1025.8	1264.4	1297.4	1276.3	1021.8
27.5°	415.3	512.9	638.1	528.7	400.8
30°	245.2	258.4	296.7	254.5	240.0
32.5°	129.2	155.6	181.9	154.3	125.3
35°	75.2	89.7	116.0	88.3	73.8
37.5°	48.8	56.7	77.8	56.7	46.1
40°	33.0	36.9	51.4	35.6	29.0
42.5°	22.4	25.1	33.0	22.4	18.5
45°	15.8	17.1	19.8	14.5	11.9
47.5°	10.5	11.9	13.2	9.2	7.9
50°	7.9	7.9	9.2	6.6	5.3
52.5°	5.3	6.6	6.6	4.0	4.0
55°	4.0	4.0	5.3	2.6	2.6
57.5°	4.0	4.0	4.0	2.6	2.6
60°	2.6	2.6	2.6	2.6	2.6
62.5°	1.3	2.6	2.6	1.3	1.3
65°	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3
75°	0.0	1.3	1.3	0.0	0.0
77.5°	0.0	1.3	1.3	1.3	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)