

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: P182577

Luminaire Tested: **LDSQA4A18840D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182577
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: LDSQA4A18840D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, 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: 2290.2 lumens
Efficiency: N/A
Efficacy: 78.6 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

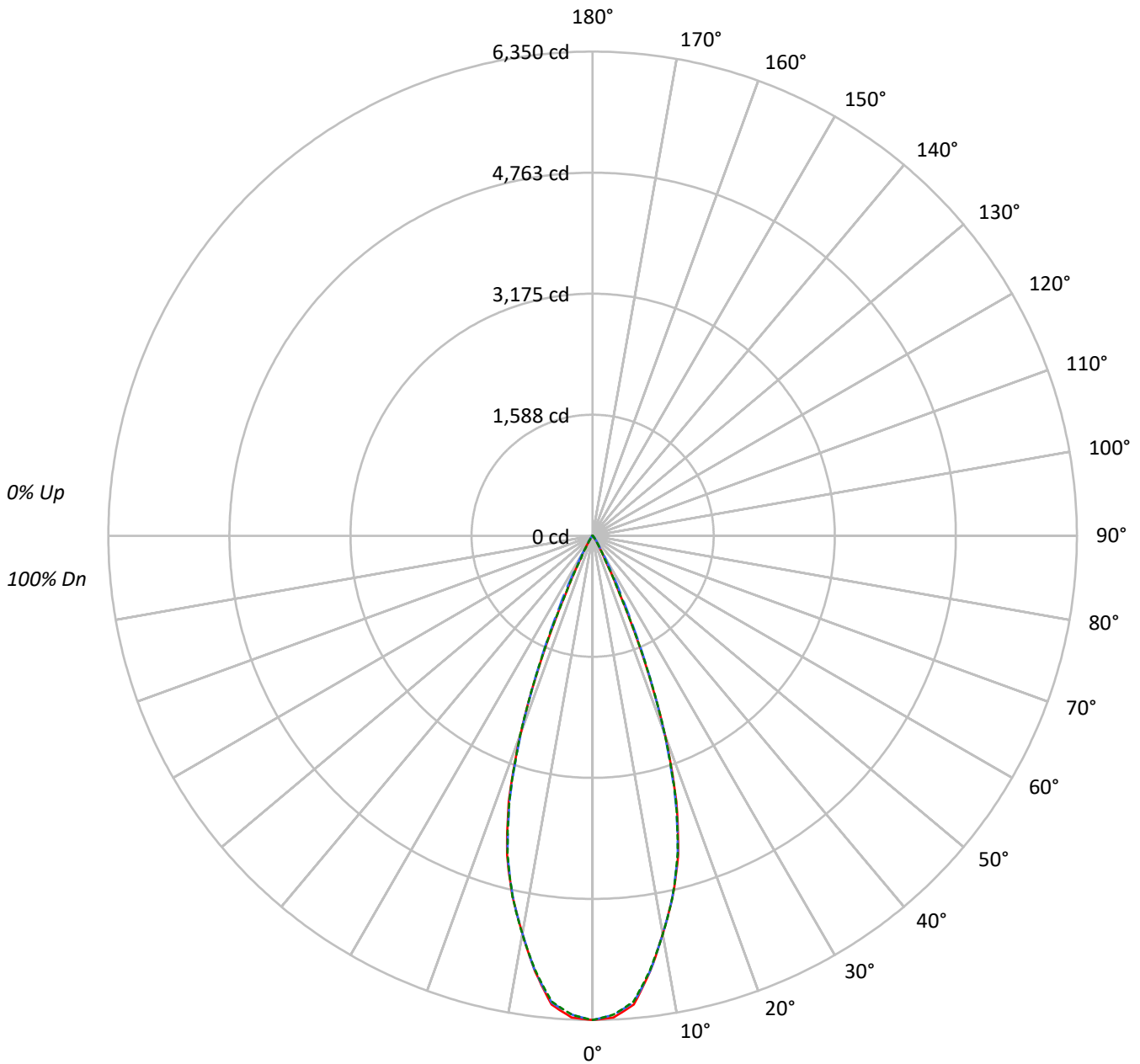
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	86	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°	615198	615198	615198
5°	600306	597661	596533
10°	521311	521213	521833
15°	434840	432523	432312
20°	285227	282958	285443
25°	87222	110311	86880
30°	21824	26399	21354
35°	7072	10916	6942
40°	3313	5172	2921
45°	1726	2151	1288
50°	949	1100	633
55°	524	709	355
60°	407	407	407
65°	229	229	229
70°	283	283	283
75°	0	374	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.9	24.4
10°-20°	1156.0	50.5
20°-30°	504.8	22.0
30°-40°	55.1	2.4
40°-50°	11.4	0.5
50°-60°	3.1	0.1
60°-70°	1.3	0.1
70°-80°	0.7	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°	2218.7	96.9
0°-40°	2273.8	99.3
0°-60°	2288.3	99.9
0°-90°	2290.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2290.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6350	6350	6350	6350	6350	
5°	6173	6156	6146	6162	6134	559
15°	4336	4317	4313	4319	4310	1160
25°	816	1006	1032	1015	813	472
35°	60	71	92	70	59	47
45°	13	14	16	12	9	10
55°	3	3	4	2	2	3
65°	1	1	1	1	1	1
75°	0	1	1	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°
0°	6350.4	6350.4	6350.4	6350.4	6350.4
2.5°	6322.1	6299.0	6286.4	6313.7	6286.4
5°	6173.1	6156.4	6145.9	6161.6	6134.3
7.5°	5765.2	5748.4	5763.1	5763.1	5749.4
10°	5299.5	5290.1	5298.5	5320.5	5304.8
12.5°	4847.5	4840.1	4843.3	4866.4	4848.5
15°	4335.7	4316.8	4312.6	4318.9	4310.5
17.5°	3654.0	3625.6	3607.8	3622.5	3626.7
20°	2766.7	2766.7	2744.7	2757.3	2768.8
22.5°	1769.3	1810.2	1814.4	1812.3	1805.0
25°	816.0	1005.8	1032.0	1015.2	812.8
27.5°	330.4	408.0	507.6	420.6	318.8
30°	195.1	205.6	236.0	202.4	190.9
32.5°	102.8	123.8	144.7	122.7	99.6
35°	59.8	71.3	92.3	70.3	58.7
37.5°	38.8	45.1	61.9	45.1	36.7
40°	26.2	29.4	40.9	28.3	23.1
42.5°	17.8	19.9	26.2	17.8	14.7
45°	12.6	13.6	15.7	11.5	9.4
47.5°	8.4	9.4	10.5	7.3	6.3
50°	6.3	6.3	7.3	5.2	4.2
52.5°	4.2	5.2	5.2	3.1	3.1
55°	3.1	3.1	4.2	2.1	2.1
57.5°	3.1	3.1	3.1	2.1	2.1
60°	2.1	2.1	2.1	2.1	2.1
62.5°	1.0	2.1	2.1	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0
75°	0.0	1.0	1.0	0.0	0.0
77.5°	0.0	1.0	1.0	1.0	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)