

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: P182542

Luminaire Tested: **LDSQA4A18827D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26797)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A18827D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2064.6 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

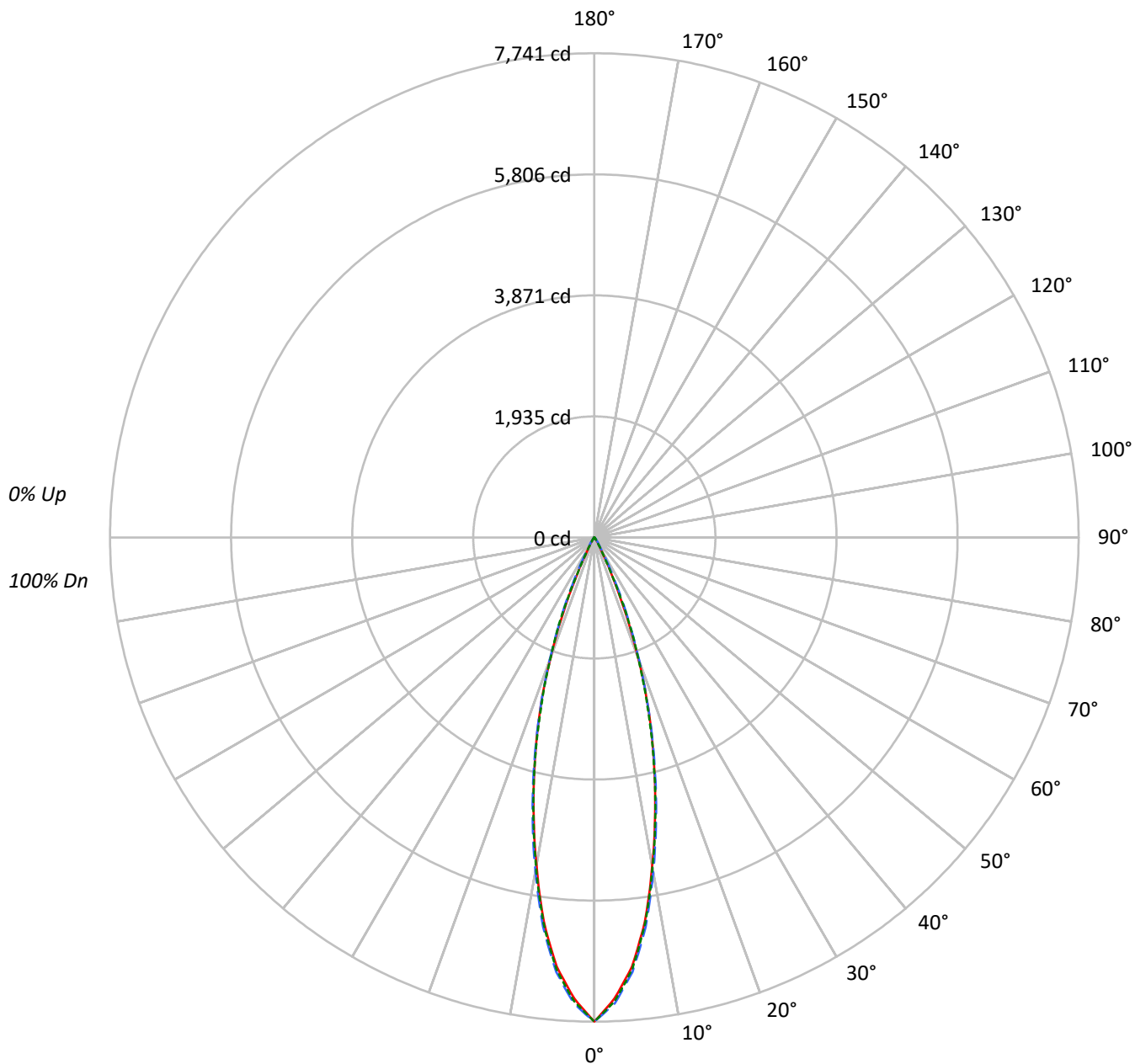
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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	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	99	100	98	96	97	96	94	93			
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	90			
4	104	99	95	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87			
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84			
6	98	91	87	84	96	91	87	84	89	86	83	88	85	83	87	84	82	81			
7	95	88	84	81	94	88	84	81	87	83	80	85	82	80	85	82	80	79			
8	92	85	81	78	91	85	81	78	84	80	78	83	80	77	82	79	77	76			
9	89	83	78	76	89	82	78	76	81	78	75	81	77	75	80	77	75	74			
10	87	80	76	73	86	80	76	73	79	76	73	78	75	73	78	75	73	72			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	749884	749884	749884
5°	669710	678141	673921
10°	524233	533607	527076
15°	368135	370833	366109
20°	211288	215649	211093
25°	66881	87981	69040
30°	17764	22070	17126
35°	6031	10928	6150
40°	2681	4388	2681
45°	1452	1973	1192
50°	874	1010	588
55°	490	490	321
60°	368	368	194
65°	229	229	229
70°	283	283	283
75°	0	374	374
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.0	29.7
10°-20°	1001.1	48.5
20°-30°	387.7	18.8
30°-40°	47.5	2.3
40°-50°	10.0	0.5
50°-60°	2.7	0.1
60°-70°	1.1	0.1
70°-80°	0.6	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°	2002.8	97.0
0°-40°	2050.3	99.3
0°-60°	2063.0	99.9
0°-90°	2064.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7741	7741	7741	7741	7741	
5°	6887	6987	6974	6931	6930	609
15°	3671	3720	3698	3671	3650	996
25°	626	784	823	809	646	351
35°	51	62	92	61	52	39
45°	11	12	14	11	9	9
55°	3	3	3	2	2	3
65°	1	1	1	1	1	1
75°	0	1	1	1	1	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°
0°	7740.7	7740.7	7740.7	7740.7	7740.7
2.5°	7378.7	7481.7	7457.7	7409.5	7422.0
5°	6886.8	6986.9	6973.5	6931.1	6930.1
7.5°	6192.7	6290.9	6279.4	6228.4	6223.5
10°	5329.2	5418.8	5424.5	5350.4	5358.1
12.5°	4486.0	4559.1	4562.0	4511.0	4500.4
15°	3670.6	3719.7	3697.5	3670.6	3650.4
17.5°	2866.8	2877.4	2872.6	2833.1	2818.6
20°	2049.5	2095.7	2091.8	2058.2	2047.6
22.5°	1276.5	1360.2	1398.7	1367.9	1384.3
25°	625.7	783.6	823.1	808.6	645.9
27.5°	254.1	332.1	413.9	327.3	245.5
30°	158.8	173.3	197.3	166.5	153.1
32.5°	83.8	104.9	133.8	102.0	83.8
35°	51.0	61.6	92.4	60.6	52.0
37.5°	32.7	38.5	53.9	38.5	33.7
40°	21.2	25.0	34.7	25.0	21.2
42.5°	14.4	16.4	22.1	16.4	13.5
45°	10.6	11.6	14.4	10.6	8.7
47.5°	7.7	8.7	9.6	6.7	5.8
50°	5.8	5.8	6.7	4.8	3.9
52.5°	3.9	4.8	4.8	2.9	2.9
55°	2.9	2.9	2.9	1.9	1.9
57.5°	2.9	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.0	1.0
62.5°	1.0	1.0	1.0	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	0.0
75°	0.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	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)