

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: P182546

Luminaire Tested: **LDSQA4A18927D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182546
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: LDSQA4A18927D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1657.1 lumens
Efficiency: N/A
Efficacy: 56.9 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

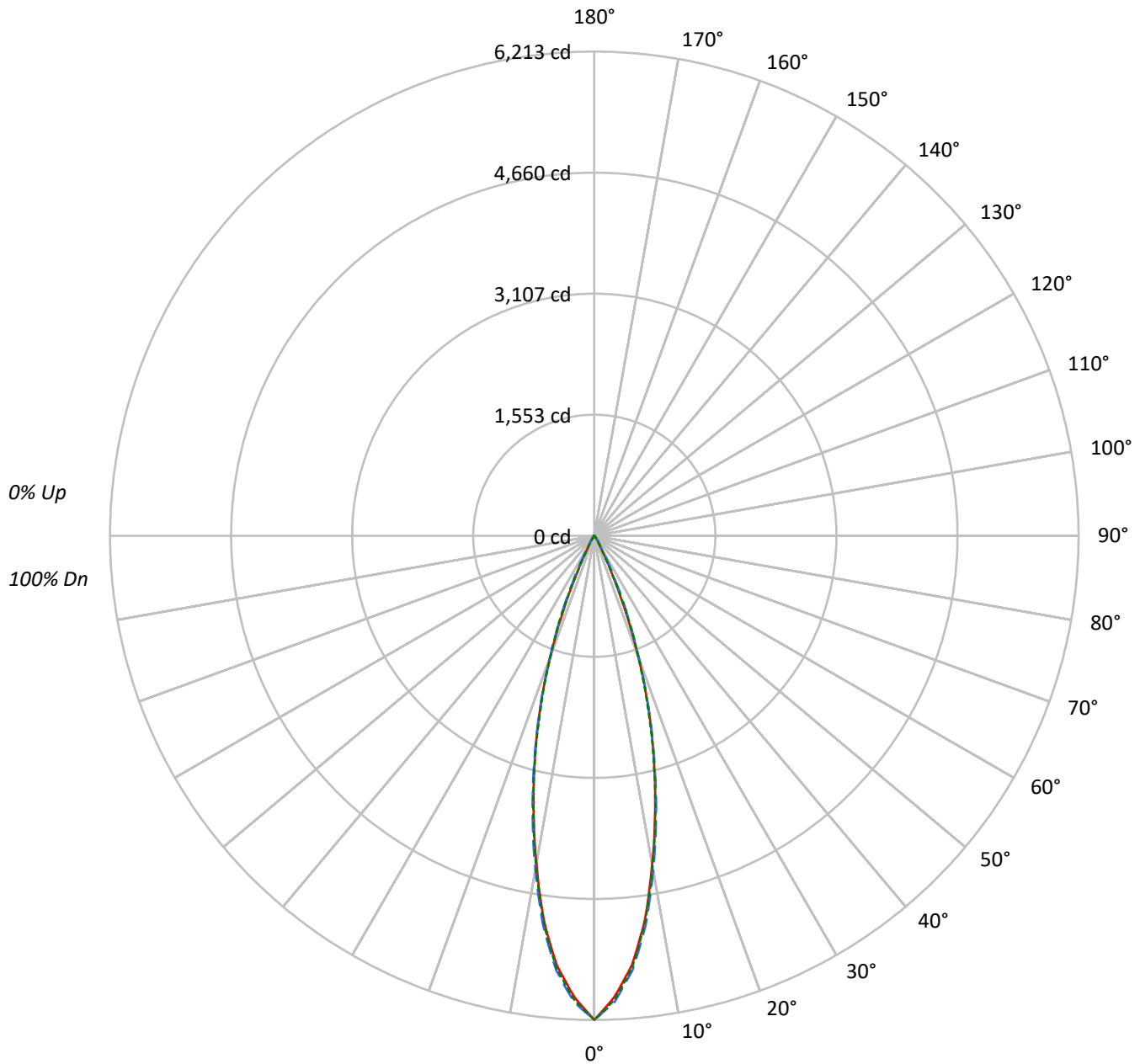
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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			100
1	115	113	111	109	113	111	109	107		107	105	104			103	102	101			96
2	111	107	104	102	109	106	103	101		103	100	99			100	98	96			93
3	107	103	99	96	106	101	98	95		99	96	94			97	94	92			90
4	104	99	95	91	102	97	94	91		95	92	90			94	91	89			87
5	101	95	91	87	99	94	90	87		92	89	86			91	88	86			84
6	98	91	87	84	96	91	87	84		89	86	83			88	85	83			81
7	95	88	84	81	94	88	84	81		87	83	80			85	82	80			79
8	92	85	81	78	91	85	81	78		84	80	78			83	80	77			76
9	89	83	78	76	89	82	78	76		81	78	75			81	77	75			74
10	87	80	76	73	86	80	76	73		79	76	73			78	75	73			72

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	601848	601848	601848
5°	537505	544273	540889
10°	420748	428273	423030
15°	295463	297629	293838
20°	169577	173082	169423
25°	53680	70612	55412
30°	14262	17719	13737
35°	4837	8775	4932
40°	2150	3516	2150
45°	1165	1589	959
50°	693	814	467
55°	388	388	253
60°	291	291	155
65°	183	183	183
70°	227	227	227
75°	0	299	299
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.8	29.7
10°-20°	803.5	48.5
20°-30°	311.2	18.8
30°-40°	38.1	2.3
40°-50°	8.0	0.5
50°-60°	2.1	0.1
60°-70°	0.8	0.1
70°-80°	0.5	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°	1607.4	97.0
0°-40°	1645.6	99.3
0°-60°	1655.7	99.9
0°-90°	1657.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1657.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6213	6213	6213	6213	6213	
5°	5527	5608	5597	5563	5562	488
15°	2946	2985	2968	2946	2930	799
25°	502	629	661	649	518	282
35°	41	49	74	49	42	31
45°	8	9	12	8	7	7
55°	2	2	2	2	2	2
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°	6212.6	6212.6	6212.6	6212.6	6212.6
2.5°	5922.1	6004.8	5985.5	5946.9	5956.9
5°	5527.3	5607.7	5596.9	5562.9	5562.1
7.5°	4970.3	5049.1	5039.8	4998.9	4995.0
10°	4277.2	4349.1	4353.7	4294.2	4300.4
12.5°	3600.4	3659.1	3661.5	3620.5	3612.0
15°	2946.0	2985.4	2967.6	2946.0	2929.8
17.5°	2300.9	2309.4	2305.5	2273.8	2262.2
20°	1644.9	1682.0	1678.9	1651.9	1643.4
22.5°	1024.5	1091.7	1122.6	1097.9	1111.0
25°	502.2	628.9	660.6	649.0	518.4
27.5°	204.0	266.6	332.2	262.7	197.0
30°	127.5	139.1	158.4	133.7	122.8
32.5°	67.2	84.2	107.4	81.9	67.2
35°	40.9	49.4	74.2	48.7	41.7
37.5°	26.3	30.9	43.3	30.9	27.0
40°	17.0	20.1	27.8	20.1	17.0
42.5°	11.6	13.1	17.8	13.1	10.8
45°	8.5	9.3	11.6	8.5	7.0
47.5°	6.2	7.0	7.7	5.4	4.6
50°	4.6	4.6	5.4	3.9	3.1
52.5°	3.1	3.9	3.9	2.3	2.3
55°	2.3	2.3	2.3	1.5	1.5
57.5°	2.3	1.5	1.5	1.5	1.5
60°	1.5	1.5	1.5	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.0
75°	0.0	0.8	0.8	0.8	0.8
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)