

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: P182572

Luminaire Tested: **LDSQA4A28935D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182572
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: LDSQA4A28935D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2397.4 lumens
Efficiency: N/A
Efficacy: 53.9 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

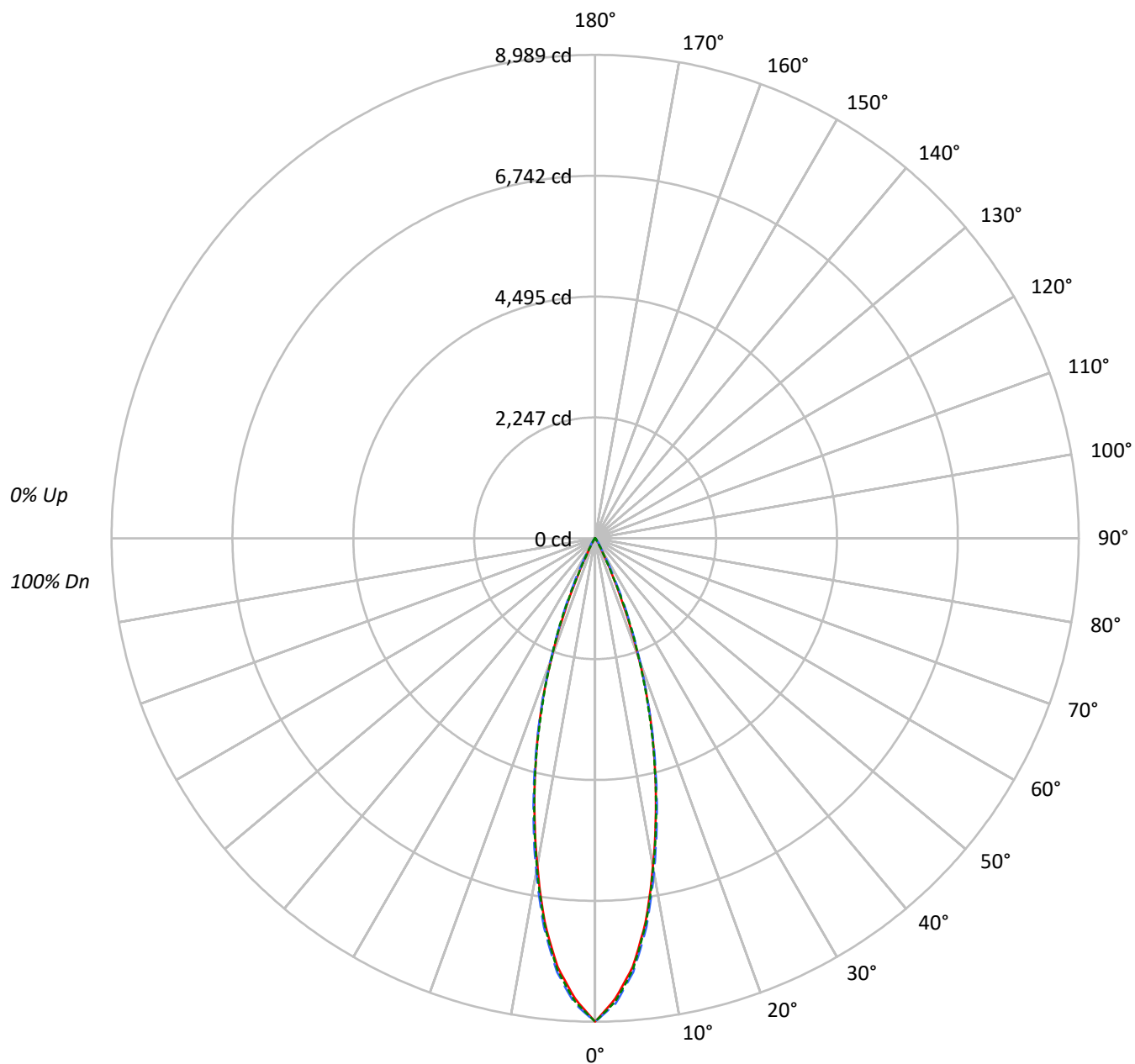
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	97	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°	870774	870774	870774
5°	777682	787465	782573
10°	608752	619642	612048
15°	427478	430617	425131
20°	245350	250422	245123
25°	77666	102166	80178
30°	20627	25639	19878
35°	7001	12690	7143
40°	3111	5084	3111
45°	1685	2302	1384
50°	1010	1176	678
55°	574	574	372
60°	426	426	213
65°	252	252	252
70°	312	312	312
75°	0	412	412
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.0	29.7
10°-20°	1162.5	48.5
20°-30°	450.3	18.8
30°-40°	55.2	2.3
40°-50°	11.6	0.5
50°-60°	3.1	0.1
60°-70°	1.2	0.0
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°	2325.7	97.0
0°-40°	2380.9	99.3
0°-60°	2395.6	99.9
0°-90°	2397.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2397.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8989	8989	8989	8989	8989	
5°	7997	8113	8098	8048	8047	707
15°	4262	4319	4294	4262	4239	1156
25°	727	910	956	939	750	407
35°	59	72	107	70	60	45
45°	12	13	17	12	10	10
55°	3	3	3	2	2	4
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°	8988.6	8988.6	8988.6	8988.6	8988.6
2.5°	8568.3	8687.9	8659.9	8604.1	8618.6
5°	7997.1	8113.3	8097.7	8048.5	8047.4
7.5°	7191.1	7305.1	7291.7	7232.5	7226.9
10°	6188.4	6292.3	6299.1	6213.0	6221.9
12.5°	5209.2	5294.1	5297.5	5238.2	5225.9
15°	4262.3	4319.4	4293.6	4262.3	4238.9
17.5°	3328.9	3341.2	3335.6	3289.8	3273.0
20°	2379.9	2433.5	2429.1	2390.0	2377.7
22.5°	1482.3	1579.5	1624.2	1588.5	1607.5
25°	726.6	909.9	955.8	939.0	750.1
27.5°	295.1	385.7	480.7	380.1	285.1
30°	184.4	201.2	229.2	193.4	177.7
32.5°	97.3	121.8	155.4	118.5	97.3
35°	59.2	71.5	107.3	70.4	60.4
37.5°	38.0	44.7	62.6	44.7	39.1
40°	24.6	29.1	40.2	29.1	24.6
42.5°	16.8	19.0	25.7	19.0	15.6
45°	12.3	13.4	16.8	12.3	10.1
47.5°	8.9	10.1	11.2	7.8	6.7
50°	6.7	6.7	7.8	5.6	4.5
52.5°	4.5	5.6	5.6	3.4	3.4
55°	3.4	3.4	3.4	2.2	2.2
57.5°	3.4	2.2	2.2	2.2	2.2
60°	2.2	2.2	2.2	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	0.0
75°	0.0	1.1	1.1	1.1	1.1
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)