

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: P1212281

Luminaire Tested: **LDSQA4A25940D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212281
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: LDSQA4A25940D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

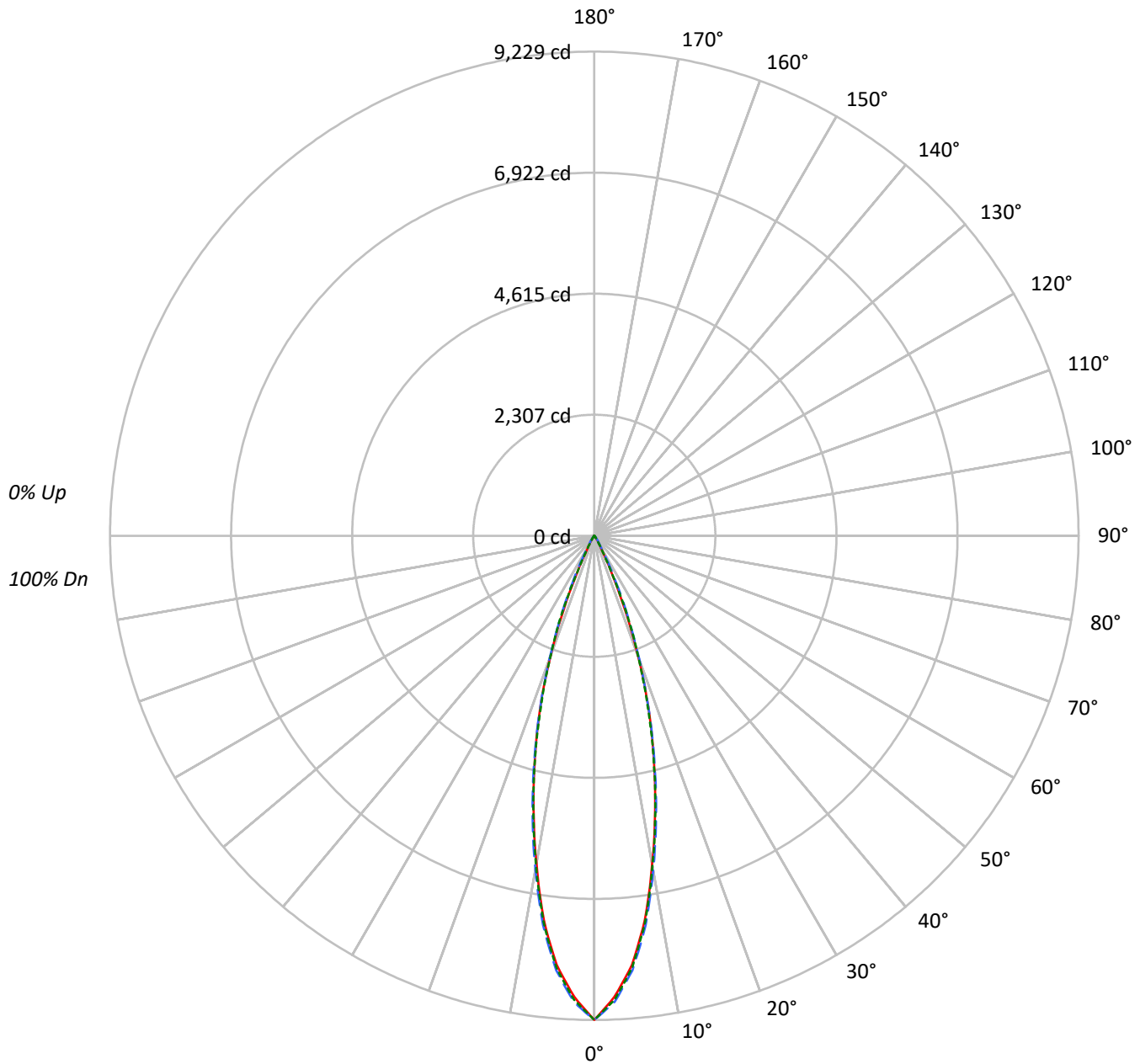
Lumens per Lamp: N/A
Luminaire Lumens: 2461.5 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	115	113	111	109	113	111	109	107		107	105	104			103	102	101			100
2	111	107	104	102	109	106	103	101		103	100	99			100	98	96			97
3	107	103	99	96	106	101	98	95		99	96	94			97	94	92			95
4	104	99	95	91	102	97	94	91		95	92	90			94	91	89			92
5	101	95	91	87	99	94	90	87		92	89	86			91	88	86			89
6	98	91	87	84	97	91	87	84		89	86	83			88	85	83			87
7	95	88	84	81	94	88	84	81		87	83	80			85	82	80			85
8	92	85	81	78	91	85	81	78		84	80	78			83	80	77			82
9	89	83	78	76	89	82	78	76		81	78	75			81	77	75			80
10	87	80	76	73	86	80	76	73		79	76	73			78	75	73			78

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	894073	894073	894073
5°	798492	808538	803510
10°	625052	636227	628436
15°	438922	442151	436504
20°	251917	257123	251680
25°	79740	104902	82327
30°	21175	26310	20415
35°	7190	13033	7332
40°	3199	5236	3199
45°	1740	2356	1425
50°	1040	1206	693
55°	574	574	388
60°	446	446	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°	732.0	29.7
10°-20°	1193.6	48.5
20°-30°	462.3	18.8
30°-40°	56.7	2.3
40°-50°	11.9	0.5
50°-60°	3.2	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°	2387.9	97.0
0°-40°	2444.6	99.3
0°-60°	2459.7	99.9
0°-90°	2461.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9229	9229	9229	9229	9229	
5°	8211	8330	8314	8264	8263	726
15°	4376	4435	4409	4376	4352	1187
25°	746	934	981	964	770	418
35°	61	73	110	72	62	46
45°	13	14	17	13	10	11
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°	9229.1	9229.1	9229.1	9229.1	9229.1
2.5°	8797.6	8920.4	8891.7	8834.3	8849.3
5°	8211.1	8330.5	8314.4	8264.0	8262.7
7.5°	7383.6	7500.6	7486.8	7426.1	7420.3
10°	6354.1	6460.7	6467.7	6379.2	6388.5
12.5°	5348.6	5435.8	5439.2	5378.4	5365.9
15°	4376.4	4434.9	4408.6	4376.4	4352.3
17.5°	3418.0	3430.6	3424.9	3377.9	3360.6
20°	2443.6	2498.7	2494.1	2454.0	2441.3
22.5°	1521.9	1621.8	1667.7	1631.0	1650.4
25°	746.0	934.3	981.4	964.2	770.2
27.5°	302.9	396.0	493.6	390.2	292.7
30°	189.3	206.6	235.2	198.6	182.5
32.5°	99.8	125.1	159.6	121.6	99.8
35°	60.8	73.4	110.2	72.3	62.0
37.5°	39.0	45.9	64.3	45.9	40.1
40°	25.3	29.9	41.4	29.9	25.3
42.5°	17.2	19.5	26.5	19.5	16.1
45°	12.7	13.8	17.2	12.7	10.4
47.5°	9.2	10.4	11.5	8.0	6.9
50°	6.9	6.9	8.0	5.7	4.6
52.5°	4.6	5.7	5.7	3.4	3.4
55°	3.4	3.4	3.4	2.3	2.3
57.5°	3.4	2.3	2.3	2.3	2.3
60°	2.3	2.3	2.3	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

Classified

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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