

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: P1212183

Luminaire Tested: **LDSQA4A20927D010TE LAR25NF 4LSQAL1H**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1212183
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: LDSQA4A20927D010TE 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

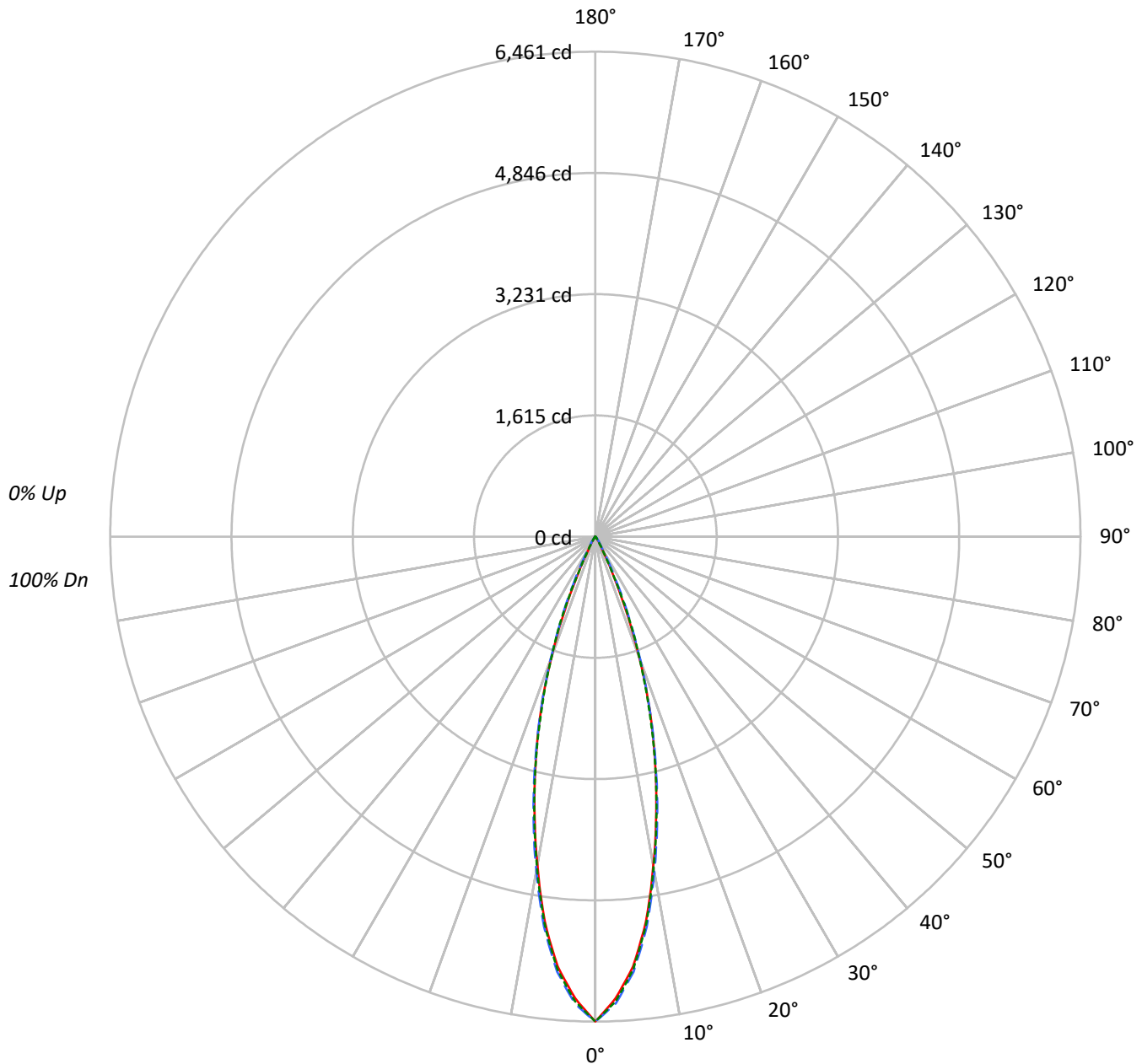
Lumens per Lamp: N/A
Luminaire Lumens: 1723.3 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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
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	96	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°	625922	625922	625922
5°	559006	566046	562526
10°	437579	445399	439949
15°	307277	309534	305592
20°	176361	180010	176196
25°	55829	73434	57625
30°	14833	18424	14285
35°	5038	9130	5133
40°	2238	3655	2238
45°	1206	1658	1000
50°	723	844	482
55°	405	405	270
60°	310	310	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°	512.5	29.7
10°-20°	835.6	48.5
20°-30°	323.6	18.8
30°-40°	39.7	2.3
40°-50°	8.3	0.5
50°-60°	2.2	0.1
60°-70°	0.9	0.0
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°	1671.7	97.0
0°-40°	1711.4	99.3
0°-60°	1722.0	99.9
0°-90°	1723.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1723.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6461	6461	6461	6461	6461	
5°	5748	5832	5821	5785	5785	508
15°	3064	3105	3086	3064	3047	831
25°	522	654	687	675	539	293
35°	43	51	77	51	43	33
45°	9	10	12	9	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°	6461.1	6461.1	6461.1	6461.1	6461.1
2.5°	6159.0	6245.0	6225.0	6184.8	6195.2
5°	5748.4	5832.0	5820.8	5785.4	5784.6
7.5°	5169.1	5251.0	5241.4	5198.9	5194.8
10°	4448.3	4523.0	4527.8	4466.0	4472.4
12.5°	3744.4	3805.4	3808.0	3765.4	3756.5
15°	3063.8	3104.8	3086.3	3063.8	3047.0
17.5°	2393.0	2401.8	2397.8	2364.7	2352.7
20°	1710.7	1749.3	1746.1	1718.0	1709.1
22.5°	1065.5	1135.4	1167.5	1141.8	1155.4
25°	522.3	654.1	687.0	675.0	539.1
27.5°	212.2	277.3	345.5	273.2	204.9
30°	132.6	144.6	164.7	139.0	127.7
32.5°	69.9	87.6	111.7	85.2	69.9
35°	42.6	51.4	77.2	50.6	43.4
37.5°	27.4	32.2	45.0	32.2	28.1
40°	17.7	20.9	28.9	20.9	17.7
42.5°	12.1	13.6	18.5	13.6	11.2
45°	8.8	9.7	12.1	8.8	7.3
47.5°	6.5	7.3	8.0	5.6	4.8
50°	4.8	4.8	5.6	4.1	3.2
52.5°	3.2	4.1	4.1	2.4	2.4
55°	2.4	2.4	2.4	1.6	1.6
57.5°	2.4	1.6	1.6	1.6	1.6
60°	1.6	1.6	1.6	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

Classified

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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