

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: P1212211

Luminaire Tested: **LDSQA4A20935D010TE 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: P1212211
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: LDSQA4A20935D010TE 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

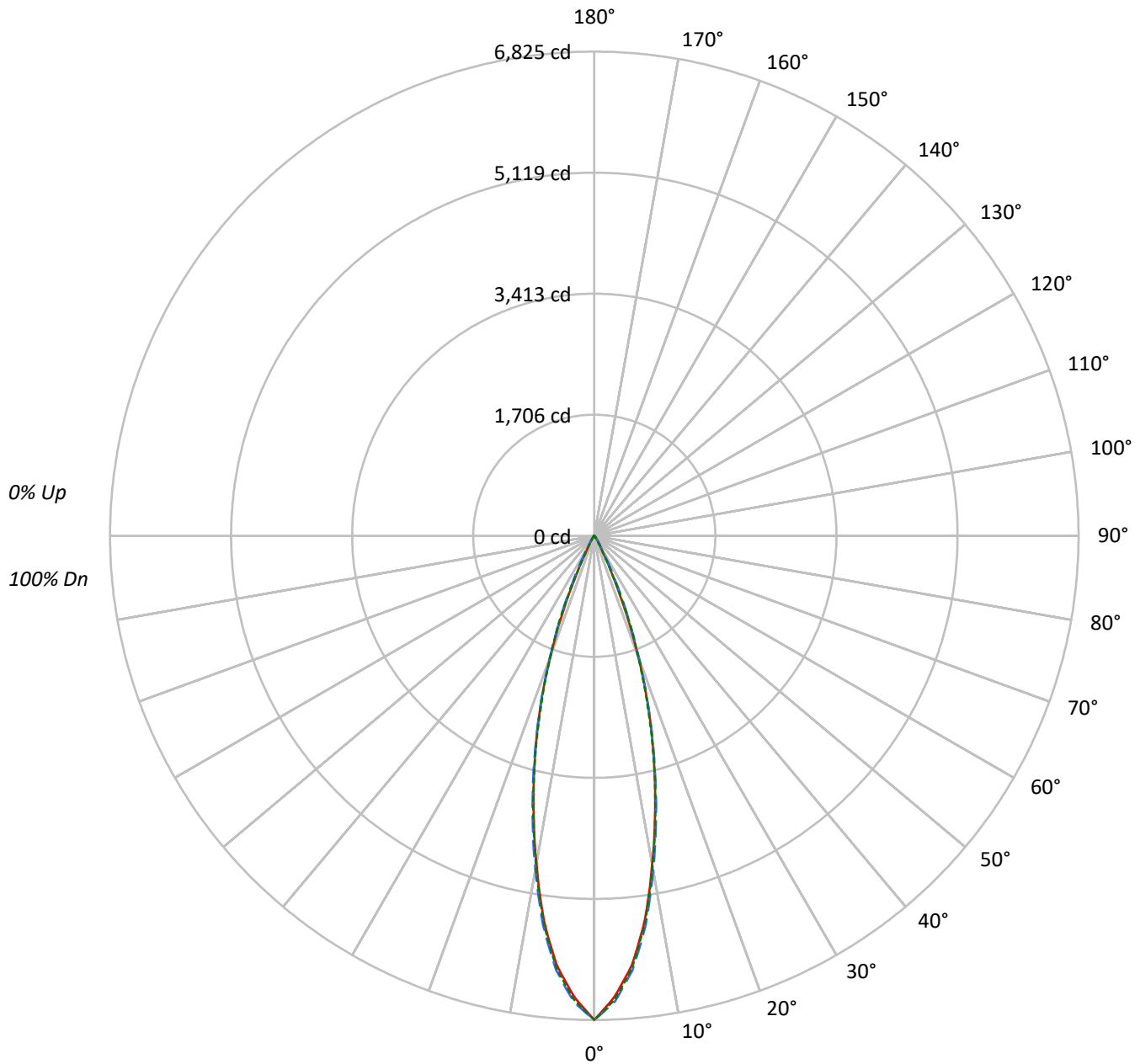
Lumens per Lamp: N/A
Luminaire Lumens: 1820.3 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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					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°	661184	661184	661184
5°	590494	597924	594209
10°	462240	470503	464739
15°	324598	326975	322802
20°	186299	190154	186124
25°	58971	77570	60874
30°	15672	19464	15101
35°	5322	9627	5416
40°	2365	3870	2365
45°	1288	1740	1041
50°	769	889	512
55°	422	422	287
60°	329	329	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°	541.4	29.7
10°-20°	882.7	48.5
20°-30°	341.9	18.8
30°-40°	41.9	2.3
40°-50°	8.8	0.5
50°-60°	2.3	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°	1765.9	97.0
0°-40°	1807.8	99.3
0°-60°	1819.0	99.9
0°-90°	1820.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1820.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6825	6825	6825	6825	6825	
5°	6072	6161	6149	6111	6110	537
15°	3236	3280	3260	3236	3219	878
25°	552	691	726	713	570	309
35°	45	54	81	53	46	34
45°	9	10	13	9	8	8
55°	2	2	2	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°	6825.1	6825.1	6825.1	6825.1	6825.1
2.5°	6505.9	6596.8	6575.6	6533.2	6544.2
5°	6072.2	6160.6	6148.6	6111.3	6110.4
7.5°	5460.2	5546.9	5536.6	5491.6	5487.4
10°	4699.0	4777.8	4783.0	4717.5	4724.4
12.5°	3955.4	4019.9	4022.4	3977.4	3968.2
15°	3236.5	3279.8	3260.2	3236.5	3218.6
17.5°	2527.7	2537.1	2532.8	2498.0	2485.3
20°	1807.1	1847.8	1844.5	1814.7	1805.4
22.5°	1125.5	1199.4	1233.4	1206.1	1220.6
25°	551.7	690.9	725.7	713.0	569.5
27.5°	224.2	292.9	365.0	288.6	216.4
30°	140.1	152.8	174.0	146.9	135.0
32.5°	73.8	92.6	117.9	89.9	73.8
35°	45.0	54.3	81.4	53.4	45.8
37.5°	28.8	33.9	47.5	33.9	29.8
40°	18.7	22.1	30.6	22.1	18.7
42.5°	12.7	14.5	19.5	14.5	11.8
45°	9.4	10.2	12.7	9.4	7.6
47.5°	6.8	7.6	8.6	5.9	5.1
50°	5.1	5.1	5.9	4.2	3.4
52.5°	3.4	4.2	4.2	2.5	2.5
55°	2.5	2.5	2.5	1.7	1.7
57.5°	2.5	1.7	1.7	1.7	1.7
60°	1.7	1.7	1.7	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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