

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: P1219536

Luminaire Tested: **LDSQA4A20950D010TE 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: P1219536
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: LDSQA4A20950D010TE LAR25NF 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

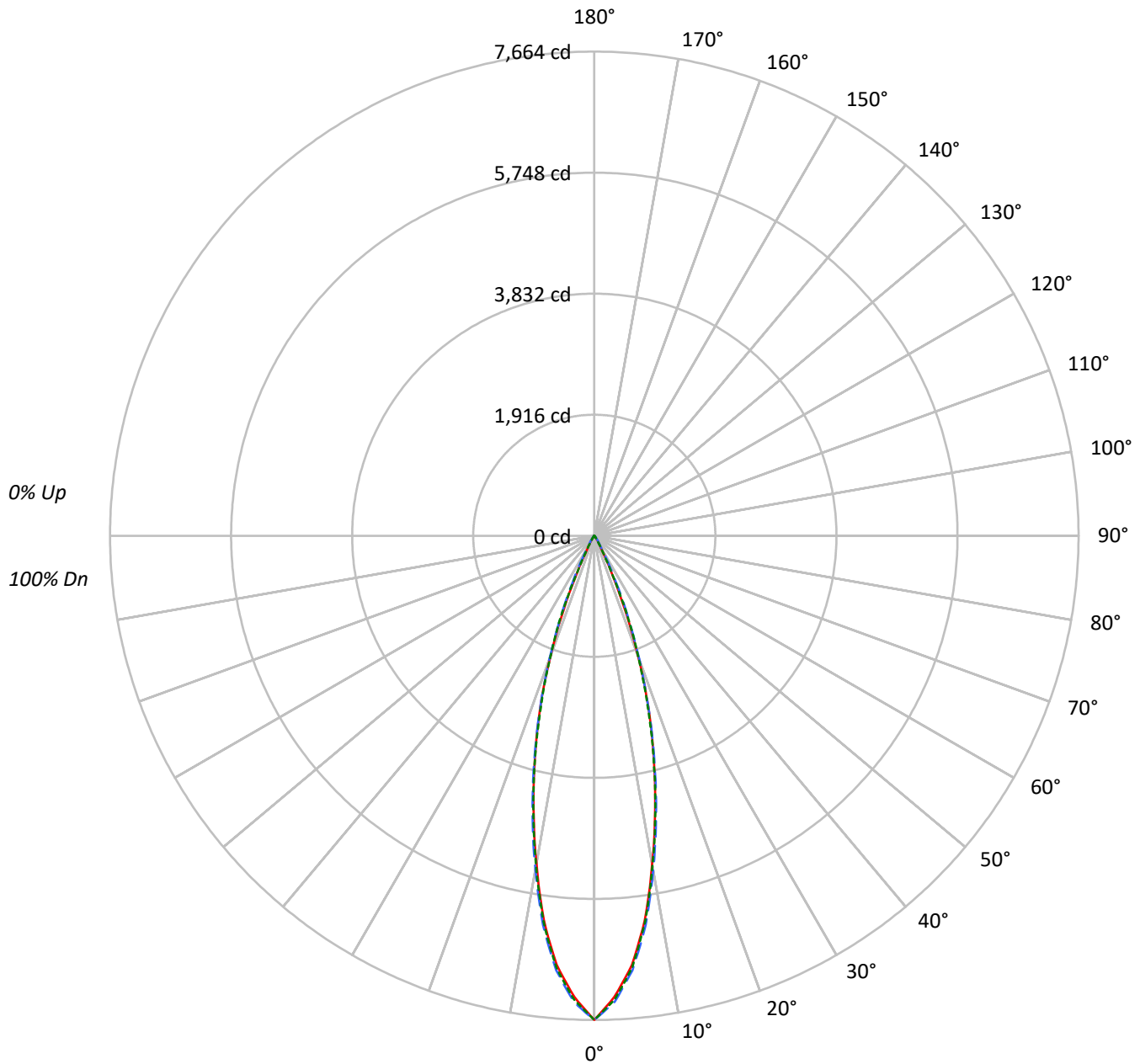
Lumens per Lamp: N/A
Luminaire Lumens: 2044.2 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	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°	742453	742453	742453
5°	663088	671431	667240
10°	519039	528325	521852
15°	364494	367162	362478
20°	209185	213526	209000
25°	66218	87094	68367
30°	17585	21847	16947
35°	5972	10821	6091
40°	2656	4338	2656
45°	1439	1973	1165
50°	859	1025	573
55°	473	473	321
60°	368	368	194
65°	229	229	229
70°	283	283	283
75°	0	374	374
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.9	29.7
10°-20°	991.2	48.5
20°-30°	383.9	18.8
30°-40°	47.1	2.3
40°-50°	9.9	0.5
50°-60°	2.6	0.1
60°-70°	1.1	0.1
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°	1983.0	97.0
0°-40°	2030.0	99.3
0°-60°	2042.6	99.9
0°-90°	2044.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7664	7664	7664	7664	7664	
5°	6819	6918	6904	6862	6861	602
15°	3634	3683	3661	3634	3614	986
25°	620	776	815	801	640	347
35°	50	61	92	60	52	39
45°	10	11	14	10	8	9
55°	3	3	3	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°	7664.0	7664.0	7664.0	7664.0	7664.0
2.5°	7305.6	7407.6	7383.8	7336.2	7348.4
5°	6818.7	6917.7	6904.5	6862.4	6861.4
7.5°	6131.3	6228.6	6217.1	6166.6	6161.9
10°	5276.4	5365.0	5370.8	5297.4	5305.0
12.5°	4441.4	4513.9	4516.8	4466.4	4455.9
15°	3634.3	3682.8	3660.9	3634.3	3614.2
17.5°	2838.4	2848.9	2844.1	2805.0	2790.7
20°	2029.1	2074.9	2071.2	2037.8	2027.3
22.5°	1263.8	1346.7	1384.9	1354.4	1370.6
25°	619.5	775.8	814.8	800.6	639.6
27.5°	251.6	328.8	409.9	324.1	243.0
30°	157.2	171.6	195.3	164.8	151.5
32.5°	83.0	103.9	132.5	101.0	83.0
35°	50.5	60.9	91.5	60.1	51.5
37.5°	32.4	38.1	53.4	38.1	33.3
40°	21.0	24.8	34.3	24.8	21.0
42.5°	14.4	16.2	21.9	16.2	13.3
45°	10.5	11.4	14.4	10.5	8.5
47.5°	7.6	8.5	9.5	6.8	5.7
50°	5.7	5.7	6.8	4.8	3.8
52.5°	3.8	4.8	4.8	2.8	2.8
55°	2.8	2.8	2.8	1.9	1.9
57.5°	2.8	1.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	0.0
75°	0.0	1.0	1.0	1.0	1.0
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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