

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: P1219548

Luminaire Tested: **LDSQA4A25950D010TE LAR25NF 4LSQA1H**

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: P1219548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26785)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25950D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

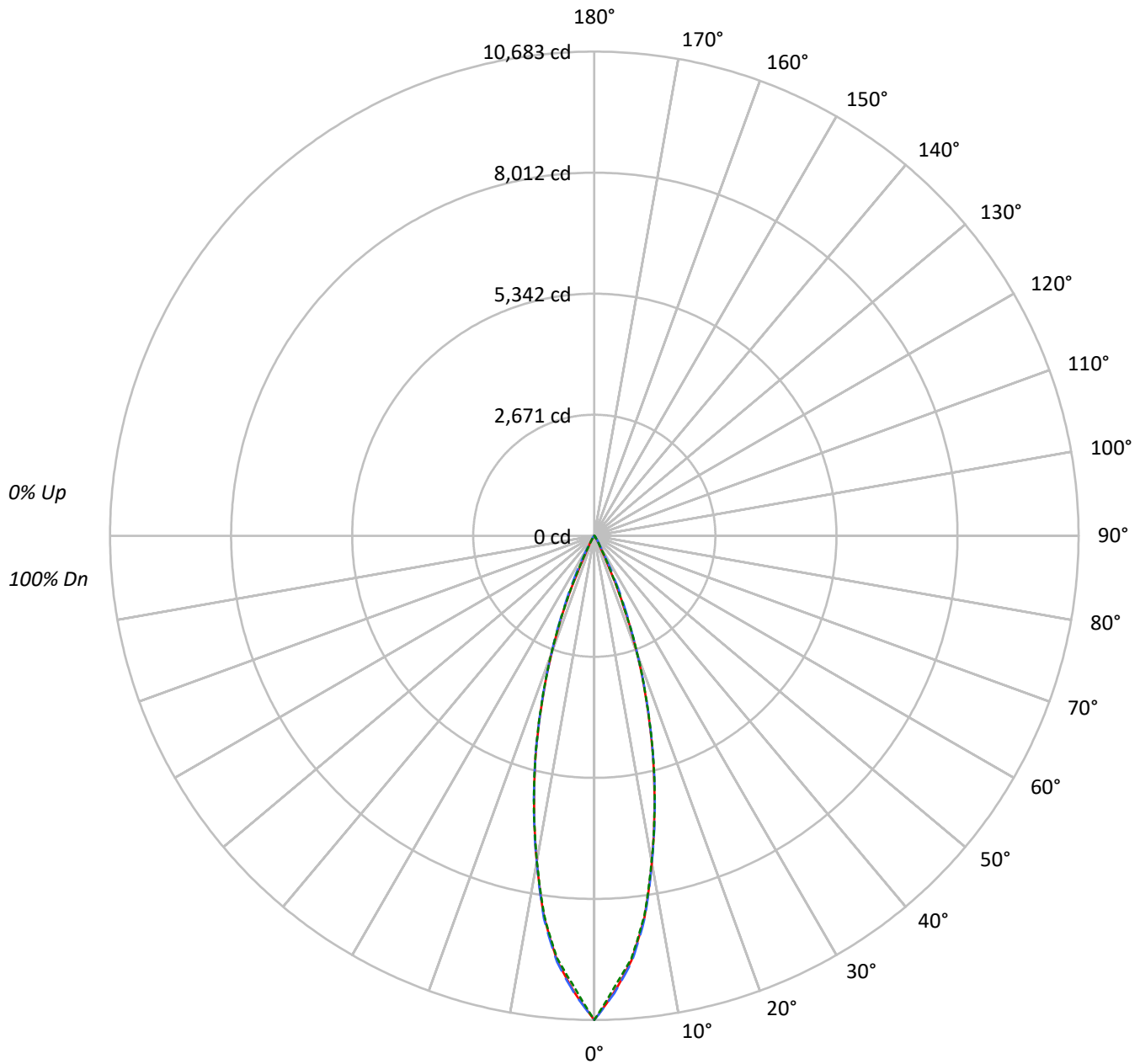
Lumens per Lamp: N/A
Luminaire Lumens: 2770.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97		
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93		
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90		
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87		
5	101	95	91	88	100	94	90	88	93	89	87	91	88	86	90	87	85	84		
6	98	92	88	84	97	91	87	84	90	86	84	88	85	83	87	85	83	82		
7	95	89	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79		
8	92	86	82	79	92	85	81	79	84	81	78	84	80	78	83	80	78	77		
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75	74		
10	87	81	77	74	87	80	76	74	80	76	74	79	76	73	78	75	73	72		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1034959	1034959	1034959
5°	914847	917978	910208
10°	719035	719871	716821
15°	500551	501986	502337
20°	283948	285794	286783
25°	76533	115837	86111
30°	18961	25907	19486
35°	5641	11874	6067
40°	2264	3933	2264
45°	1137	1644	986
50°	723	723	362
55°	591	405	186
60°	465	213	213
65°	252	252	252
70°	312	312	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.1	30.3
10°-20°	1362.9	49.2
20°-30°	506.6	18.3
30°-40°	50.3	1.8
40°-50°	8.4	0.3
50°-60°	2.3	0.1
60°-70°	1.1	0.0
70°-80°	0.2	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°	2707.7	97.8
0°-40°	2758.0	99.6
0°-60°	2768.7	100.0
0°-90°	2770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10683	10683	10683	10683	10683	
5°	9408	9502	9440	9551	9360	833
15°	4991	5047	5005	5088	5009	1350
25°	716	1051	1084	1012	806	448
35°	48	60	100	62	51	38
45°	8	10	12	10	7	7
55°	4	2	2	2	1	3
65°	1	1	1	1	1	1
75°	0	1	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10683.4	10683.4	10683.4	10683.4	10683.4
2.5°	10081.9	10135.5	10102.1	10191.6	9975.6
5°	9407.6	9501.9	9439.8	9550.7	9359.9
7.5°	8481.6	8579.4	8516.0	8623.5	8452.9
10°	7309.5	7382.3	7318.0	7421.8	7287.0
12.5°	6137.7	6210.5	6162.8	6258.2	6150.9
15°	4990.9	5046.9	5005.2	5087.5	5008.7
17.5°	3826.2	3879.8	3841.6	3908.3	3848.7
20°	2754.3	2800.9	2772.2	2828.4	2781.8
22.5°	1710.2	1834.4	1854.5	1859.3	1724.5
25°	716.0	1051.3	1083.7	1012.0	805.6
27.5°	294.8	386.7	515.5	407.0	310.2
30°	169.5	196.9	231.6	202.9	174.2
32.5°	84.8	109.7	151.5	115.8	89.5
35°	47.7	59.6	100.4	62.0	51.3
37.5°	28.7	34.6	50.1	35.8	29.8
40°	17.9	21.5	31.1	22.7	17.9
42.5°	12.0	14.4	19.1	14.4	12.0
45°	8.3	9.6	12.0	9.6	7.2
47.5°	5.9	5.9	7.2	5.9	4.8
50°	4.8	4.8	4.8	3.5	2.4
52.5°	3.5	3.5	3.5	2.4	2.4
55°	3.5	2.4	2.4	2.4	1.1
57.5°	2.4	2.4	2.4	1.1	1.1
60°	2.4	2.4	1.1	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	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	1.1	0.0	0.0	0.0
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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