

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: P1219562

Luminaire Tested: **LDSQA4A30950D010TE 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: P1219562
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: LDSQA4A30950D010TE 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

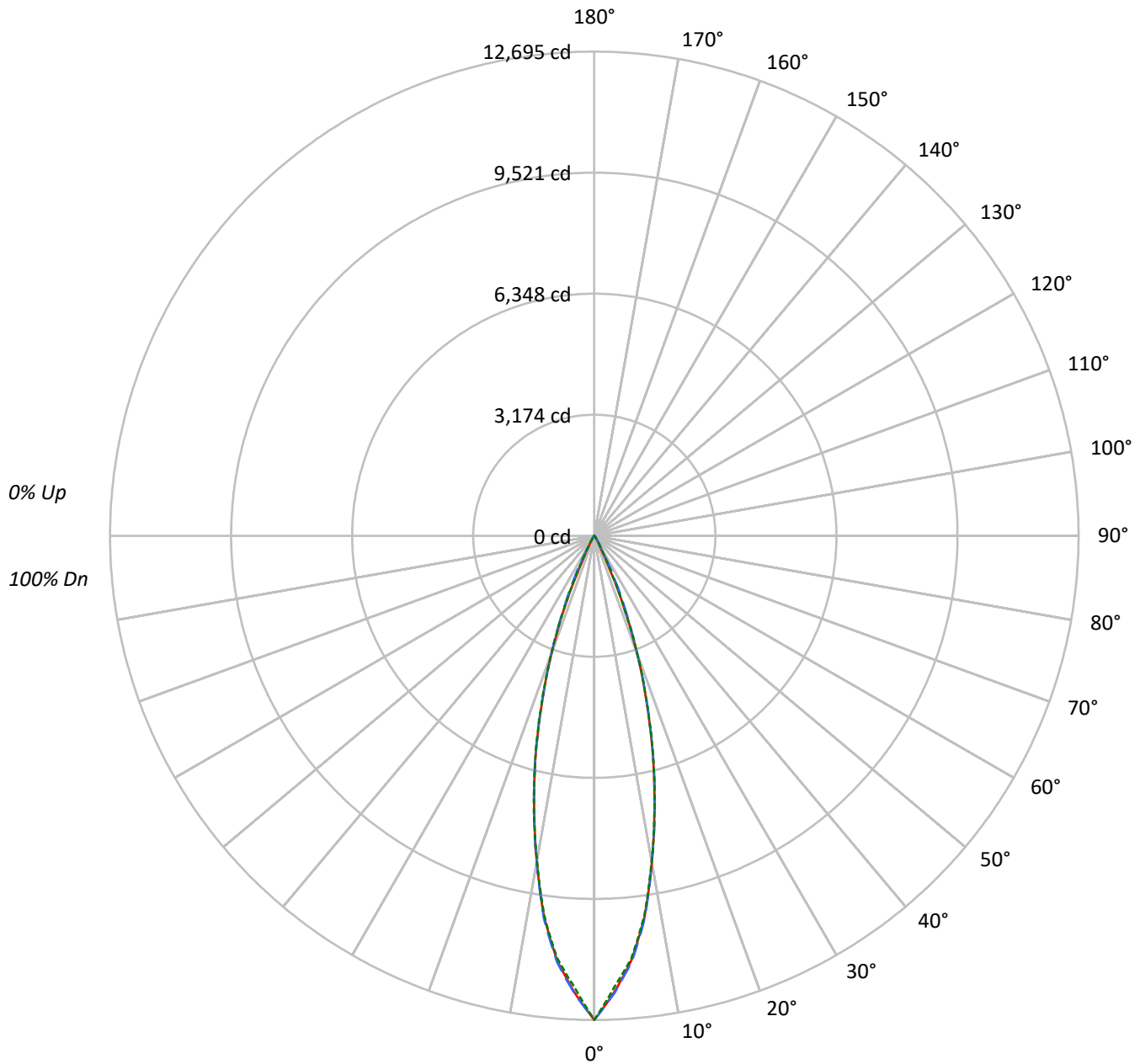
Lumens per Lamp: N/A
Luminaire Lumens: 3291.8 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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	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	91	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°	1229824	1229824	1229824
5°	1087097	1090812	1081584
10°	854431	855405	851785
15°	594787	596502	596923
20°	337412	339608	340783
25°	90942	137632	102315
30°	22529	30773	23167
35°	6717	14097	7202
40°	2694	4666	2694
45°	1356	1945	1151
50°	844	844	422
55°	726	473	253
60°	543	291	291
65°	344	344	344
70°	425	425	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	996.0	30.3
10°-20°	1619.6	49.2
20°-30°	602.0	18.3
30°-40°	59.7	1.8
40°-50°	10.0	0.3
50°-60°	2.7	0.1
60°-70°	1.5	0.0
70°-80°	0.3	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°	3217.5	97.7
0°-40°	3277.3	99.6
0°-60°	3290.0	99.9
0°-90°	3291.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3291.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12695	12695	12695	12695	12695	
5°	11179	11291	11217	11349	11122	990
15°	5930	5997	5948	6045	5952	1604
25°	851	1249	1288	1203	957	532
35°	57	71	119	74	61	46
45°	10	11	14	11	8	8
55°	4	3	3	3	2	3
65°	2	2	2	2	2	2
75°	0	2	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°	12694.9	12694.9	12694.9	12694.9	12694.9
2.5°	11980.1	12043.9	12004.2	12110.6	11853.9
5°	11178.9	11291.0	11217.1	11349.0	11122.2
7.5°	10078.5	10194.7	10119.5	10247.1	10044.4
10°	8685.9	8772.4	8695.8	8819.2	8659.0
12.5°	7293.3	7379.7	7323.2	7436.5	7308.9
15°	5930.5	5997.2	5947.6	6045.3	5951.8
17.5°	4546.5	4610.3	4564.9	4644.2	4573.4
20°	3272.9	3328.3	3294.2	3361.0	3305.6
22.5°	2032.2	2179.6	2203.8	2209.4	2049.2
25°	850.8	1249.4	1287.6	1202.6	957.2
27.5°	350.4	459.5	612.7	483.6	368.7
30°	201.4	234.0	275.1	241.1	207.1
32.5°	100.7	130.4	180.0	137.5	106.4
35°	56.8	70.8	119.2	73.7	60.9
37.5°	34.1	41.2	59.6	42.5	35.5
40°	21.3	25.5	36.9	26.9	21.3
42.5°	14.2	17.1	22.7	17.1	14.2
45°	9.9	11.4	14.2	11.4	8.4
47.5°	7.1	7.1	8.4	7.1	5.6
50°	5.6	5.6	5.6	4.3	2.8
52.5°	4.3	4.3	4.3	2.8	2.8
55°	4.3	2.8	2.8	2.8	1.5
57.5°	2.8	2.8	2.8	1.5	1.5
60°	2.8	2.8	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	1.5	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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