

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: P1212377

Luminaire Tested: **LDSQA4A35935D010TE 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: P1212377
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: LDSQA4A35935D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

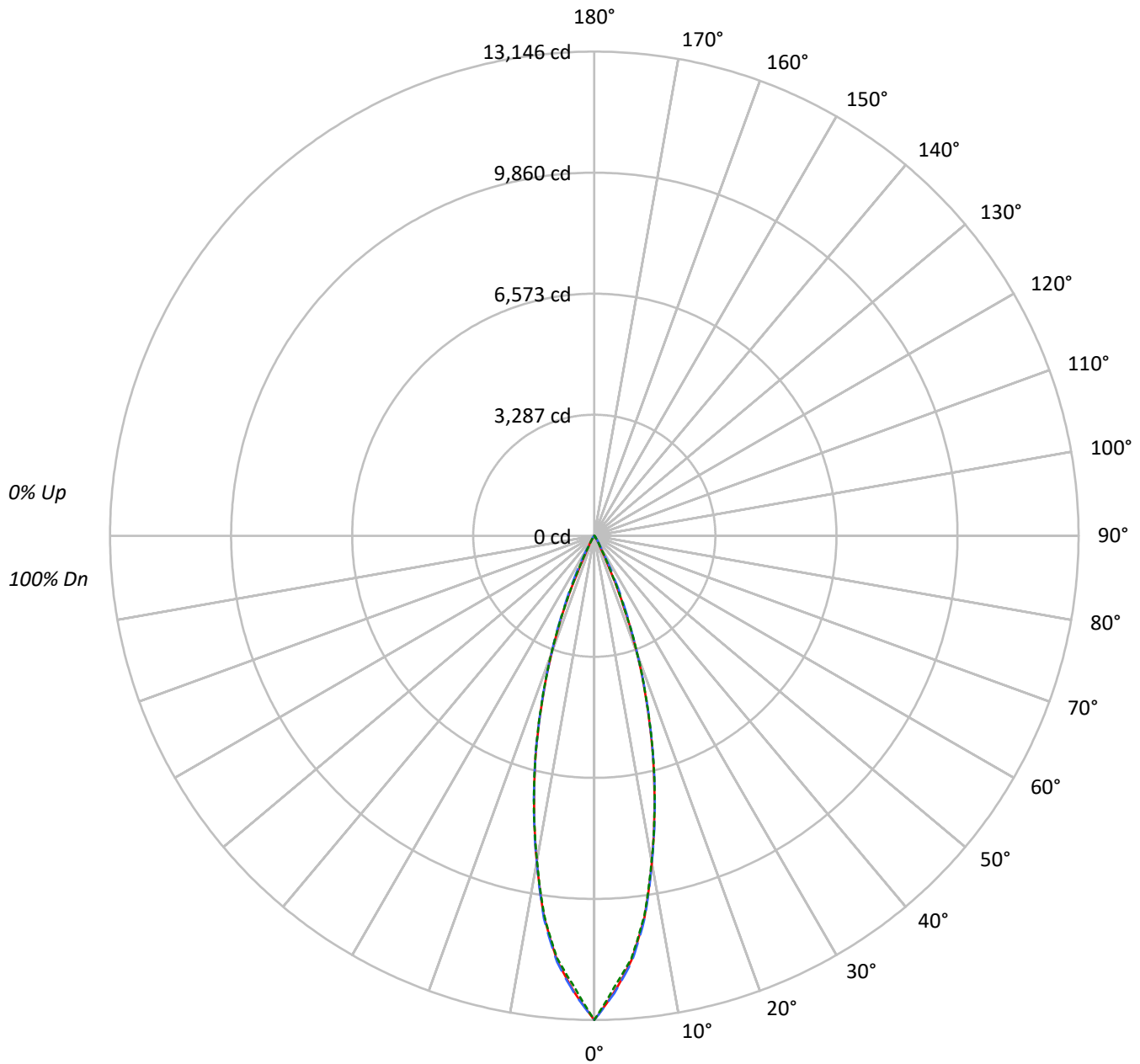
Lumens per Lamp: N/A
Luminaire Lumens: 3408.8 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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	108	105	102	109	106	103	101		103	101	99			100	98	97			97
3	108	103	99	96	106	102	98	96		99	96	94			97	95	93			95
4	104	99	95	92	103	98	94	91		96	93	90			94	91	89			92
5	101	95	91	88	100	94	90	88		93	89	87			91	88	86			90
6	98	92	88	84	97	91	87	84		90	86	84			88	85	83			87
7	95	89	84	81	94	88	84	81		87	83	81			86	83	80			85
8	92	86	82	79	91	85	81	79		84	81	78			84	80	78			83
9	90	83	79	76	89	83	79	76		82	78	76			81	78	76			80
10	87	81	77	74	87	80	76	74		80	76	74			79	76	73			78

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1273544	1273544	1273544
5°	1125743	1129594	1120035
10°	884798	885821	882053
15°	615928	617704	618135
20°	349412	351690	352897
25°	94192	142527	105960
30°	23334	31858	23994
35°	6954	14594	7474
40°	2782	4843	2782
45°	1397	2014	1206
50°	889	889	437
55°	760	490	253
60°	562	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°	1031.4	30.3
10°-20°	1677.1	49.2
20°-30°	623.4	18.3
30°-40°	61.9	1.8
40°-50°	10.4	0.3
50°-60°	2.8	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°	3331.9	97.7
0°-40°	3393.8	99.6
0°-60°	3407.0	99.9
0°-90°	3408.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3408.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13146	13146	13146	13146	13146	
5°	11576	11692	11616	11753	11518	1025
15°	6141	6210	6159	6260	6163	1662
25°	881	1294	1333	1245	991	551
35°	59	73	123	76	63	47
45°	10	12	15	12	9	9
55°	4	3	3	3	2	4
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13146.2	13146.2	13146.2	13146.2	13146.2
2.5°	12406.0	12472.1	12431.0	12541.1	12275.2
5°	11576.3	11692.3	11615.9	11752.6	11517.6
7.5°	10436.7	10557.2	10479.3	10611.5	10401.5
10°	8994.6	9084.2	9005.0	9132.7	8966.7
12.5°	7552.6	7642.1	7583.4	7700.8	7568.8
15°	6141.3	6210.3	6159.0	6260.3	6163.3
17.5°	4708.1	4774.1	4727.1	4809.4	4735.9
20°	3389.3	3446.6	3411.4	3480.4	3423.1
22.5°	2104.4	2257.1	2282.1	2288.0	2122.0
25°	881.2	1293.8	1333.4	1245.3	991.3
27.5°	362.7	475.8	634.4	500.8	381.9
30°	208.6	242.3	284.8	249.7	214.5
32.5°	104.2	135.0	186.4	142.4	110.1
35°	58.8	73.4	123.4	76.4	63.2
37.5°	35.2	42.6	61.6	44.0	36.6
40°	22.0	26.4	38.3	27.9	22.0
42.5°	14.7	17.6	23.5	17.6	14.7
45°	10.2	11.7	14.7	11.7	8.8
47.5°	7.4	7.4	8.8	7.4	5.9
50°	5.9	5.9	5.9	4.5	2.9
52.5°	4.5	4.5	4.5	2.9	2.9
55°	4.5	2.9	2.9	2.9	1.5
57.5°	2.9	2.9	2.9	1.5	1.5
60°	2.9	2.9	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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