

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: P1212237

Luminaire Tested: **LDSQA4A25927D010TE 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: P1212237
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: LDSQA4A25927D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

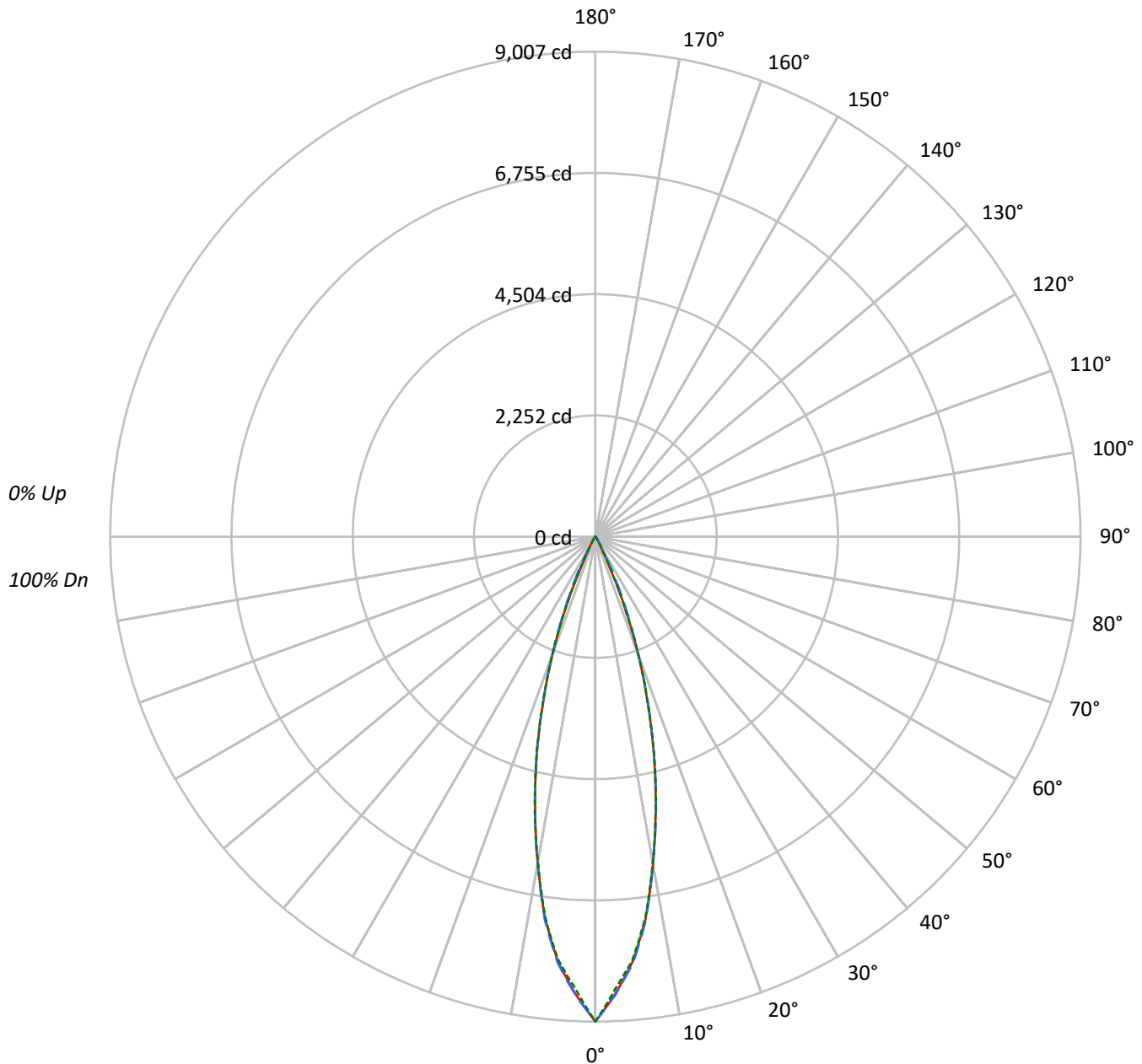
Lumens per Lamp: N/A
Luminaire Lumens: 2335.5 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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
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°	872518	872518	872518
5°	771264	773899	767345
10°	606195	606883	604306
15°	421982	423196	423496
20°	239381	240938	241773
25°	64530	97655	72589
30°	15985	21835	16433
35°	4766	9993	5121
40°	1910	3313	1910
45°	959	1384	822
50°	603	603	301
55°	524	338	186
60°	388	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°	706.6	30.3
10°-20°	1149.0	49.2
20°-30°	427.1	18.3
30°-40°	42.4	1.8
40°-50°	7.1	0.3
50°-60°	2.0	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°	2282.7	97.7
0°-40°	2325.1	99.6
0°-60°	2334.2	99.9
0°-90°	2335.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2335.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9007	9007	9007	9007	9007	
5°	7931	8010	7958	8052	7891	702
15°	4208	4255	4220	4289	4223	1138
25°	604	886	914	853	679	377
35°	40	50	84	52	43	32
45°	7	8	10	8	6	6
55°	3	2	2	2	1	2
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°	9006.6	9006.6	9006.6	9006.6	9006.6
2.5°	8499.5	8544.8	8516.6	8592.1	8410.0
5°	7931.1	8010.5	7958.2	8051.8	7890.8
7.5°	7150.4	7232.8	7179.5	7270.1	7126.3
10°	6162.4	6223.7	6169.4	6257.0	6143.2
12.5°	5174.4	5235.7	5195.5	5276.0	5185.5
15°	4207.5	4254.8	4219.6	4289.0	4222.6
17.5°	3225.5	3270.8	3238.7	3294.9	3244.7
20°	2322.0	2361.3	2337.1	2384.4	2345.2
22.5°	1441.7	1546.3	1563.5	1567.6	1453.8
25°	603.7	886.4	913.6	853.2	679.1
27.5°	248.5	326.0	434.6	343.1	261.6
30°	142.9	166.0	195.2	171.1	146.9
32.5°	71.4	92.5	127.8	97.6	75.4
35°	40.3	50.3	84.5	52.3	43.3
37.5°	24.2	29.2	42.3	30.2	25.1
40°	15.1	18.1	26.2	19.1	15.1
42.5°	10.1	12.1	16.1	12.1	10.1
45°	7.0	8.1	10.1	8.1	6.0
47.5°	5.0	5.0	6.0	5.0	4.0
50°	4.0	4.0	4.0	3.1	2.0
52.5°	3.1	3.1	3.1	2.0	2.0
55°	3.1	2.0	2.0	2.0	1.1
57.5°	2.0	2.0	2.0	1.1	1.1
60°	2.0	2.0	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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