

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: P1212363

Luminaire Tested: **LDSQA4A35930D010TE 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: P1212363
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: LDSQA4A35930D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

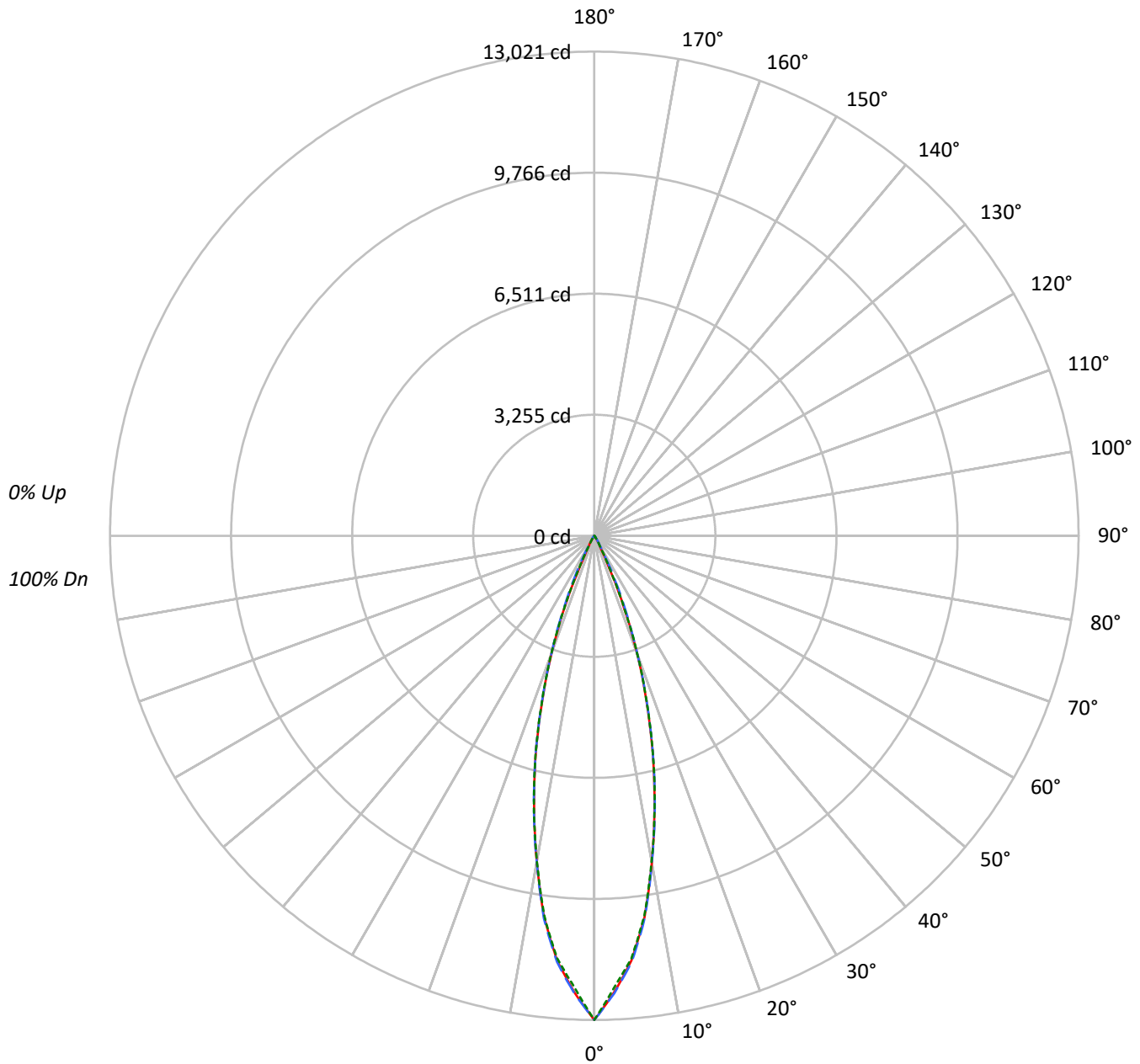
Lumens per Lamp: N/A
Luminaire Lumens: 3376.4 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	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°	1261434	1261434	1261434
5°	1115046	1118858	1109386
10°	876397	877391	873682
15°	610071	611826	612268
20°	346092	348350	349536
25°	93294	141170	104945
30°	23111	31567	23760
35°	6883	14452	7403
40°	2757	4780	2757
45°	1384	2000	1192
50°	874	874	437
55°	726	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°	1021.6	30.3
10°-20°	1661.2	49.2
20°-30°	617.5	18.3
30°-40°	61.3	1.8
40°-50°	10.2	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°	3300.2	97.7
0°-40°	3361.5	99.6
0°-60°	3374.6	99.9
0°-90°	3376.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3376.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13021	13021	13021	13021	13021	
5°	11466	11581	11506	11641	11408	1015
15°	6083	6151	6100	6201	6105	1646
25°	873	1281	1321	1234	982	546
35°	58	73	122	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	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13021.2	13021.2	13021.2	13021.2	13021.2
2.5°	12288.2	12353.6	12312.8	12421.9	12158.7
5°	11466.3	11581.2	11505.5	11640.9	11408.1
7.5°	10337.5	10456.8	10379.7	10510.7	10302.7
10°	8909.2	8997.9	8919.3	9045.9	8881.6
12.5°	7480.7	7569.6	7511.3	7627.6	7496.7
15°	6082.9	6151.3	6100.4	6200.8	6104.8
17.5°	4663.2	4728.8	4682.1	4763.6	4691.0
20°	3357.1	3413.9	3379.0	3447.3	3390.5
22.5°	2084.4	2235.6	2260.4	2266.3	2101.9
25°	872.8	1281.4	1320.7	1233.5	981.8
27.5°	359.2	471.4	628.4	496.0	378.1
30°	206.6	240.0	282.2	247.3	212.4
32.5°	103.3	133.7	184.8	141.1	109.1
35°	58.2	72.6	122.2	75.7	62.6
37.5°	35.0	42.2	61.1	43.7	36.4
40°	21.8	26.1	37.8	27.6	21.8
42.5°	14.6	17.4	23.3	17.4	14.6
45°	10.1	11.7	14.6	11.7	8.7
47.5°	7.2	7.2	8.7	7.2	5.8
50°	5.8	5.8	5.8	4.3	2.9
52.5°	4.3	4.3	4.3	2.9	2.9
55°	4.3	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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