

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: P1212195

Luminaire Tested: **LDSQA4A20930D010TE 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: P1212195
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: LDSQA4A20930D010TE 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

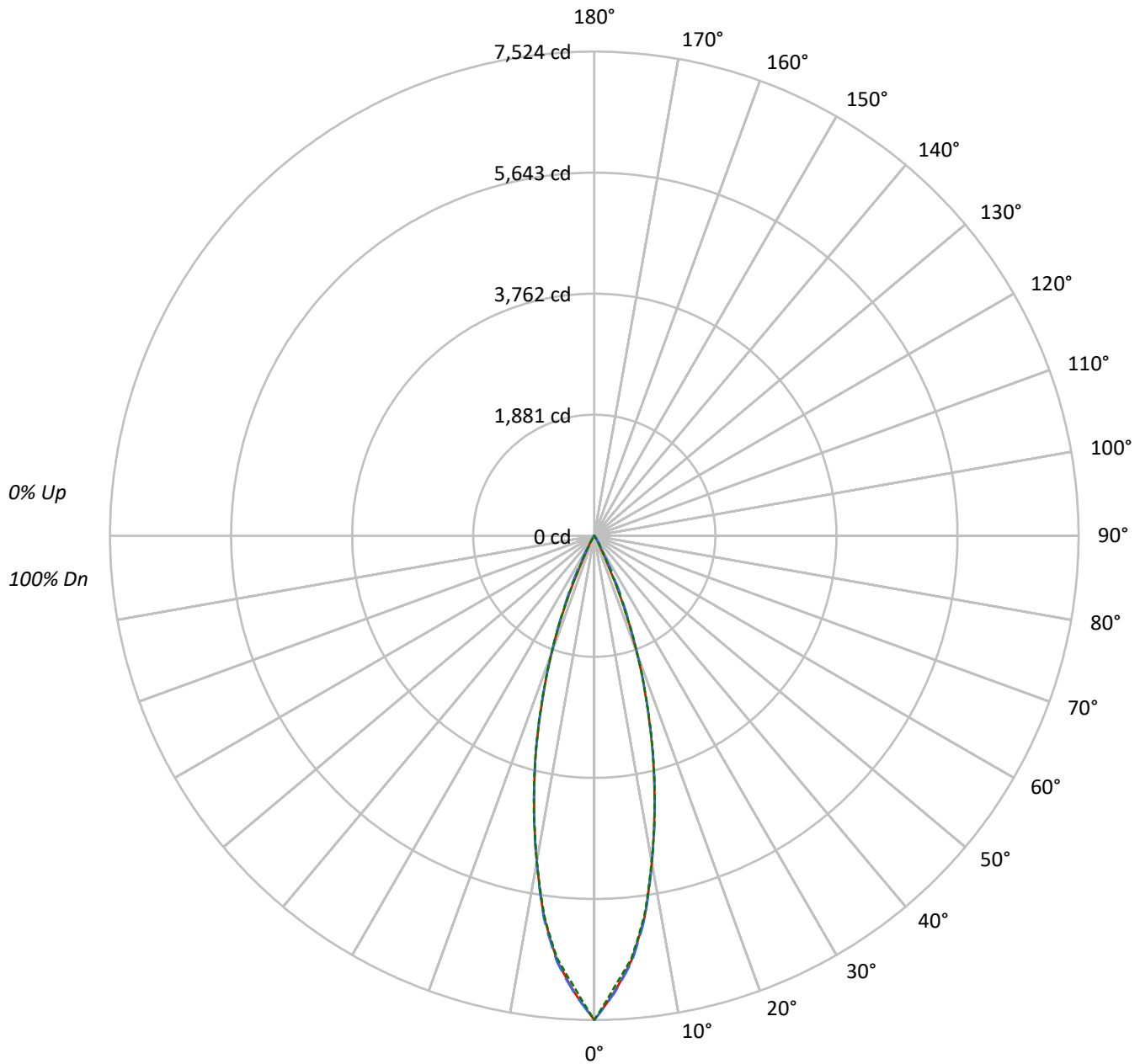
Lumens per Lamp: N/A
Luminaire Lumens: 1951.0 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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°	728929	728929	728929
5°	644339	646546	641062
10°	506428	507018	504864
15°	352539	353552	353803
20°	199989	201299	201989
25°	53905	81568	60650
30°	13356	18234	13725
35°	3974	8349	4281
40°	1593	2757	1593
45°	808	1151	685
50°	512	512	256
55°	422	287	135
60°	329	155	155
65°	183	183	183
70°	227	227	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.3	30.3
10°-20°	959.9	49.2
20°-30°	356.8	18.3
30°-40°	35.4	1.8
40°-50°	5.9	0.3
50°-60°	1.6	0.1
60°-70°	0.8	0.0
70°-80°	0.1	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°	1907.1	97.7
0°-40°	1942.5	99.6
0°-60°	1950.0	100.0
0°-90°	1951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7524	7524	7524	7524	7524	
5°	6626	6692	6649	6727	6592	587
15°	3515	3555	3525	3583	3528	951
25°	504	740	763	713	567	315
35°	34	42	71	44	36	27
45°	6	7	8	7	5	5
55°	2	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7524.4	7524.4	7524.4	7524.4	7524.4
2.5°	7100.8	7138.6	7115.0	7178.1	7026.0
5°	6625.9	6692.3	6648.6	6726.7	6592.2
7.5°	5973.7	6042.6	5998.0	6073.7	5953.4
10°	5148.2	5199.5	5154.2	5227.3	5132.3
12.5°	4322.9	4374.2	4340.6	4407.8	4332.2
15°	3515.1	3554.6	3525.2	3583.2	3527.7
17.5°	2694.7	2732.6	2705.7	2752.8	2710.7
20°	1939.9	1972.8	1952.6	1992.0	1959.3
22.5°	1204.6	1291.9	1306.2	1309.6	1214.6
25°	504.3	740.5	763.1	712.8	567.4
27.5°	207.6	272.4	363.0	286.6	218.5
30°	119.4	138.7	163.0	142.9	122.7
32.5°	59.7	77.4	106.7	81.5	63.0
35°	33.6	42.0	70.6	43.7	36.2
37.5°	20.2	24.3	35.3	25.2	21.0
40°	12.6	15.0	21.8	16.0	12.6
42.5°	8.4	10.1	13.4	10.1	8.4
45°	5.9	6.8	8.4	6.8	5.0
47.5°	4.2	4.2	5.0	4.2	3.4
50°	3.4	3.4	3.4	2.5	1.7
52.5°	2.5	2.5	2.5	1.7	1.7
55°	2.5	1.7	1.7	1.7	0.8
57.5°	1.7	1.7	1.7	0.8	0.8
60°	1.7	1.7	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.8	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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