

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: P1212223

Luminaire Tested: **LDSQA4A20940D010TE 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: P1212223
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: LDSQA4A20940D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

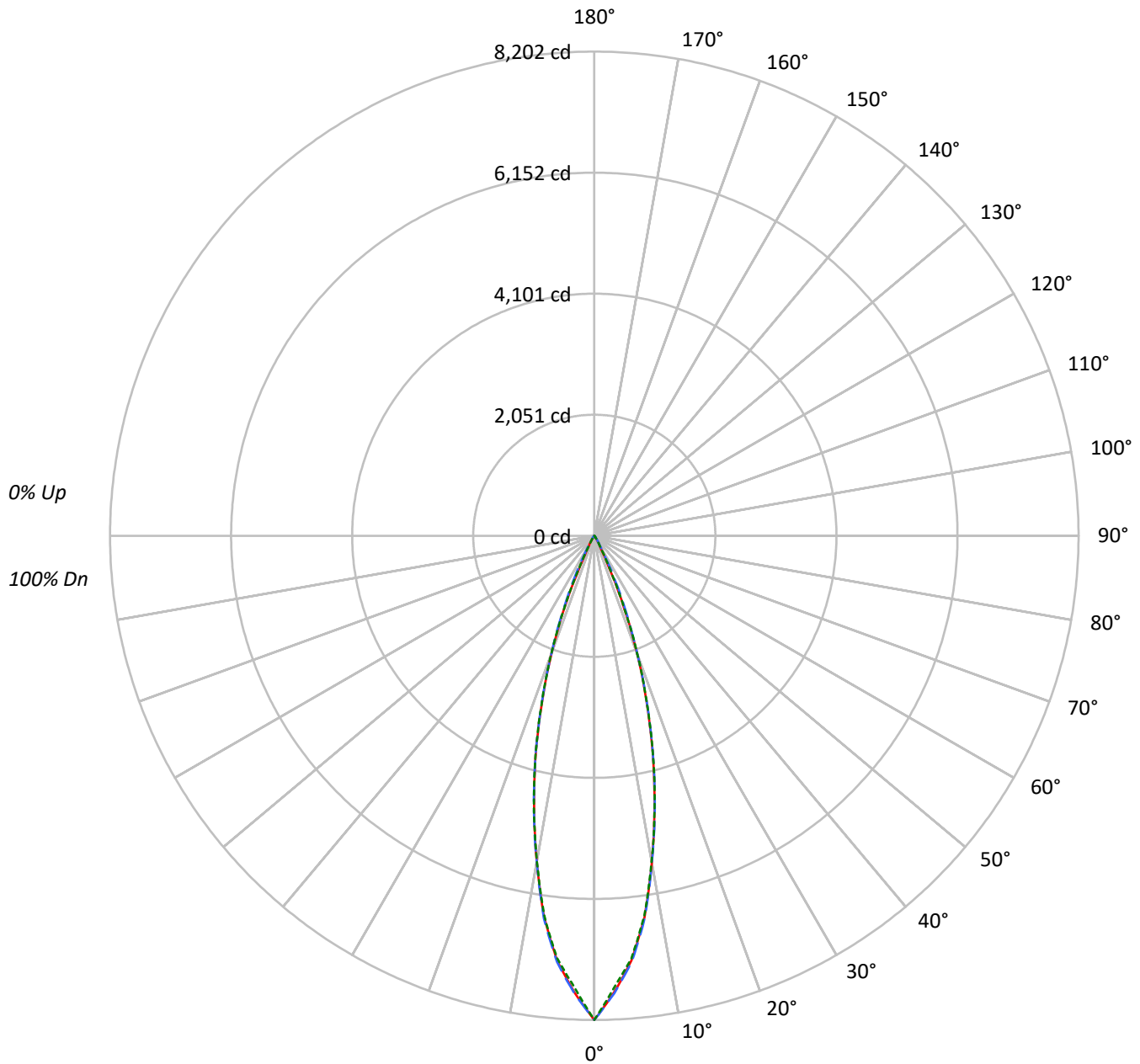
Lumens per Lamp: N/A
Luminaire Lumens: 2126.9 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	794592	794592	794592
5°	702385	704787	698825
10°	552062	552691	550340
15°	384302	385405	385676
20°	218010	219433	220185
25°	58768	88933	66112
30°	14553	19889	14967
35°	4328	9106	4660
40°	1745	3010	1745
45°	891	1247	754
50°	558	558	271
55°	456	304	169
60°	349	194	194
65°	229	229	229
70°	283	283	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.5	30.3
10°-20°	1046.4	49.2
20°-30°	389.0	18.3
30°-40°	38.6	1.8
40°-50°	6.5	0.3
50°-60°	1.8	0.1
60°-70°	1.0	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°	2078.9	97.7
0°-40°	2117.5	99.6
0°-60°	2125.7	99.9
0°-90°	2126.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2126.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8202	8202	8202	8202	8202	
5°	7223	7295	7248	7333	7186	640
15°	3832	3875	3843	3906	3846	1037
25°	550	807	832	777	618	344
35°	37	46	77	48	39	29
45°	6	7	9	7	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8202.2	8202.2	8202.2	8202.2	8202.2
2.5°	7740.5	7781.7	7756.0	7824.7	7659.0
5°	7222.8	7295.2	7247.5	7332.7	7186.2
7.5°	6511.8	6587.0	6538.4	6620.9	6489.8
10°	5612.1	5667.9	5618.5	5698.2	5594.6
12.5°	4712.2	4768.2	4731.5	4804.8	4722.3
15°	3831.8	3874.8	3842.8	3905.9	3845.5
17.5°	2937.4	2978.8	2949.4	3000.7	2955.0
20°	2114.7	2150.4	2128.5	2171.5	2135.8
22.5°	1313.0	1408.2	1423.8	1427.5	1324.0
25°	549.8	807.3	832.0	777.0	618.5
27.5°	226.3	296.8	395.8	312.4	238.2
30°	130.1	151.2	177.8	155.8	133.8
32.5°	65.1	84.3	116.4	89.0	68.7
35°	36.6	45.8	77.0	47.6	39.4
37.5°	21.9	26.6	38.5	27.4	22.9
40°	13.8	16.6	23.8	17.4	13.8
42.5°	9.1	11.0	14.6	11.0	9.1
45°	6.5	7.3	9.1	7.3	5.5
47.5°	4.6	4.6	5.5	4.6	3.7
50°	3.7	3.7	3.7	2.7	1.8
52.5°	2.7	2.7	2.7	1.8	1.8
55°	2.7	1.8	1.8	1.8	1.0
57.5°	1.8	1.8	1.8	1.0	1.0
60°	1.8	1.8	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	1.0	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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