

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: P1212383

Luminaire Tested: **LDSQA4A35935D010TE LAR35FL 4LSQAL1H**

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: P1212383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26798)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35935D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

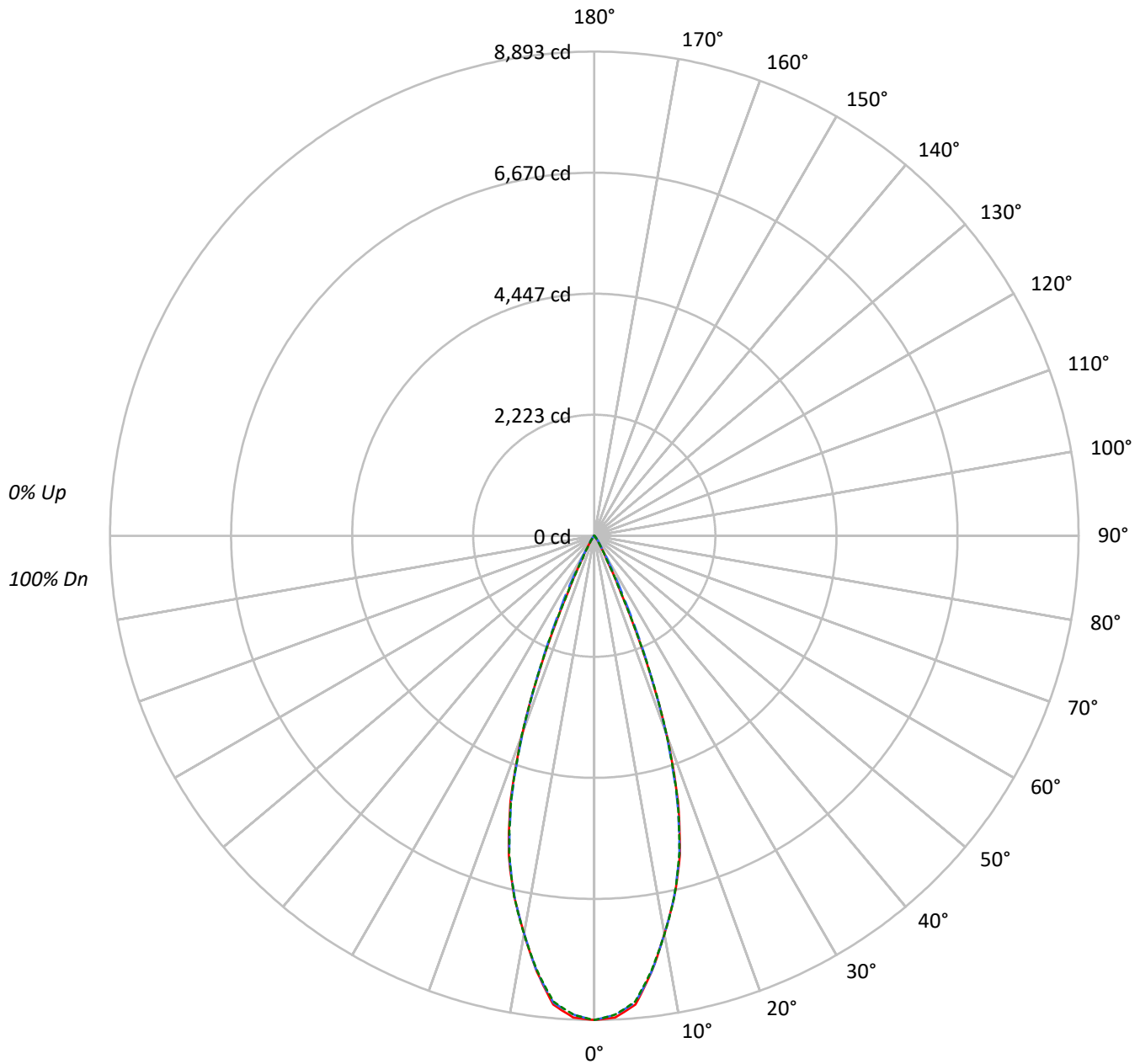
Lumens per Lamp: N/A
Luminaire Lumens: 3207.6 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89		
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86		
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	84	82		
6	97	90	86	82	95	89	85	82	88	84	82	87	83	81	85	83	81	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	84	78	73	71	77	73	71	76	73	70	76	72	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	861552	861552	861552
5°	840707	837002	835426
10°	730082	729934	730800
15°	608978	605739	605438
20°	399443	396268	399752
25°	122143	154488	121673
30°	30561	36970	29901
35°	9899	15291	9733
40°	4629	7246	4085
45°	2411	3014	1822
50°	1326	1537	889
55°	760	996	490
60°	562	562	562
65°	344	344	344
70°	425	425	425
75°	0	561	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.3	24.4
10°-20°	1618.9	50.5
20°-30°	707.0	22.0
30°-40°	77.2	2.4
40°-50°	15.9	0.5
50°-60°	4.4	0.1
60°-70°	1.8	0.1
70°-80°	1.1	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°	3107.1	96.9
0°-40°	3184.3	99.3
0°-60°	3204.7	99.9
0°-90°	3207.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3207.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8893	8893	8893	8893	8893	
5°	8645	8622	8607	8629	8591	783
15°	6072	6045	6040	6048	6037	1624
25°	1143	1409	1445	1422	1138	661
35°	84	100	129	98	82	66
45°	18	19	22	16	13	15
55°	4	4	6	3	3	5
65°	2	2	2	2	2	2
75°	0	2	2	0	0	1
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°	8893.4	8893.4	8893.4	8893.4	8893.4
2.5°	8853.9	8821.5	8803.8	8842.1	8803.8
5°	8645.2	8621.7	8607.1	8629.0	8590.9
7.5°	8073.9	8050.4	8071.0	8071.0	8051.8
10°	7421.8	7408.5	7420.3	7451.2	7429.1
12.5°	6788.6	6778.4	6782.9	6815.2	6790.2
15°	6072.0	6045.4	6039.7	6048.5	6036.7
17.5°	5117.2	5077.6	5052.6	5073.2	5079.0
20°	3874.6	3874.6	3843.8	3861.5	3877.6
22.5°	2477.8	2535.1	2541.0	2538.0	2527.8
25°	1142.7	1408.6	1445.3	1421.7	1138.3
27.5°	462.7	571.3	710.9	589.0	446.5
30°	273.2	287.9	330.5	283.5	267.3
32.5°	143.9	173.3	202.7	171.8	139.6
35°	83.7	99.9	129.3	98.4	82.3
37.5°	54.4	63.2	86.6	63.2	51.4
40°	36.6	41.1	57.3	39.7	32.3
42.5°	25.0	27.9	36.6	25.0	20.5
45°	17.6	19.1	22.0	16.1	13.3
47.5°	11.7	13.3	14.7	10.2	8.8
50°	8.8	8.8	10.2	7.4	5.9
52.5°	5.9	7.4	7.4	4.5	4.5
55°	4.5	4.5	5.9	2.9	2.9
57.5°	4.5	4.5	4.5	2.9	2.9
60°	2.9	2.9	2.9	2.9	2.9
62.5°	1.5	2.9	2.9	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	1.5
72.5°	1.5	1.5	1.5	1.5	1.5
75°	0.0	1.5	1.5	0.0	0.0
77.5°	0.0	1.5	1.5	1.5	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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