

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: P1212381

Luminaire Tested: **LDSQA4A35935D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26795)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A35935D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

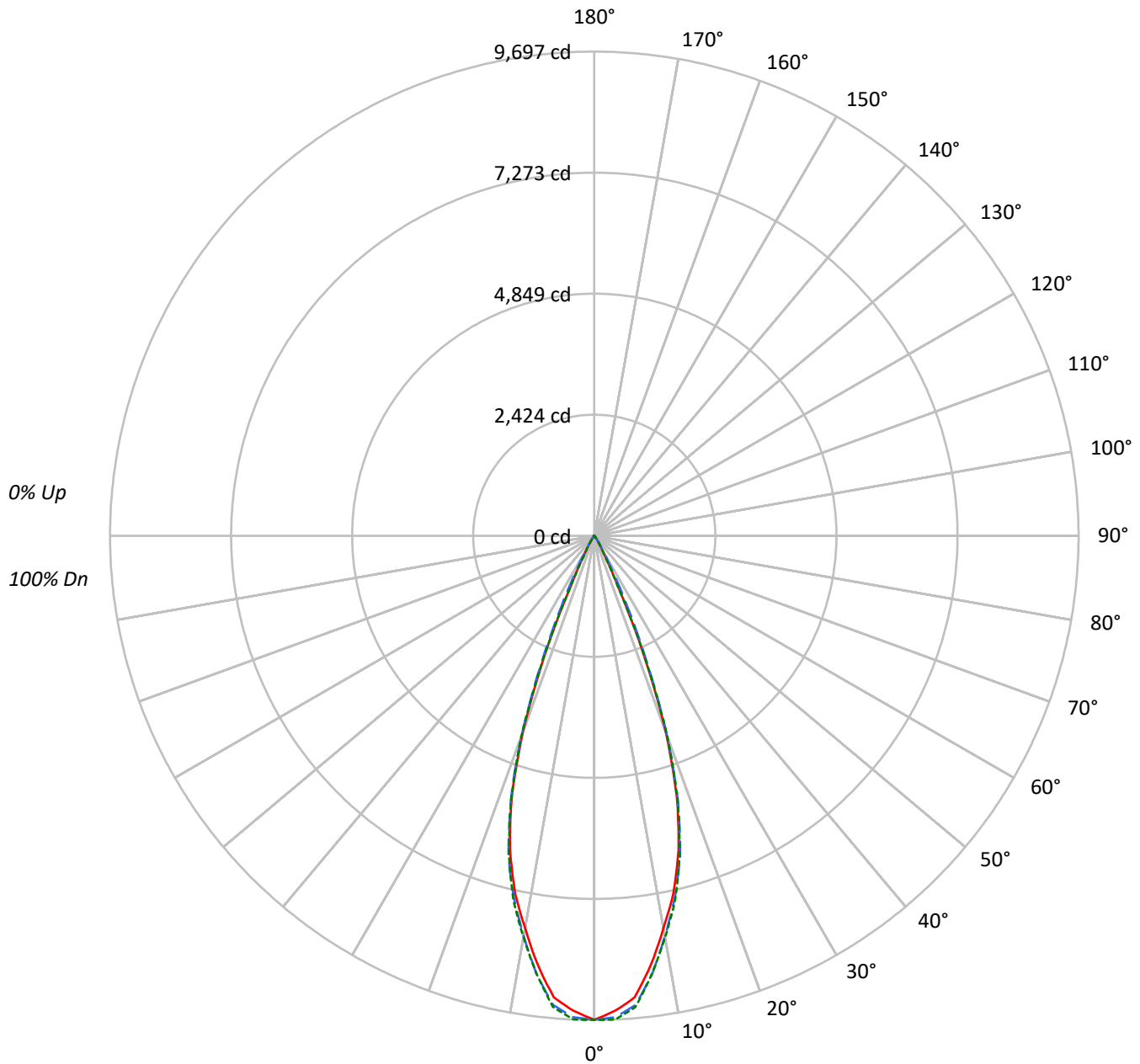
Lumens per Lamp: N/A
Luminaire Lumens: 3454.3 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



Cooper Lighting Solutions Photometric Lab

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	939110	939110	939110
5°	902419	917560	921265
10°	784726	800751	803062
15°	653648	665884	662946
20°	429515	439206	439814
25°	119140	167486	117259
30°	28592	36310	29073
35°	7652	13186	7474
40°	2782	5021	2592
45°	1397	1822	1206
50°	889	889	678
55°	490	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°	851.9	24.7
10°-20°	1766.4	51.1
20°-30°	754.4	21.8
30°-40°	66.6	1.9
40°-50°	9.9	0.3
50°-60°	2.8	0.1
60°-70°	1.5	0.0
70°-80°	0.7	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°	3372.7	97.6
0°-40°	3439.3	99.6
0°-60°	3452.1	99.9
0°-90°	3454.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3454.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9694	9694	9694	9694	9694	
5°	9280	9356	9436	9421	9474	841
15°	6517	6581	6639	6591	6610	1747
25°	1115	1518	1567	1499	1097	683
35°	65	81	112	79	63	54
45°	10	10	13	10	9	9
55°	3	3	3	3	2	3
65°	2	2	2	2	2	2
75°	0	2	0	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°	9694.0	9694.0	9694.0	9694.0	9694.0
2.5°	9523.6	9591.3	9651.5	9647.0	9697.0
5°	9279.8	9356.2	9435.5	9420.9	9473.6
7.5°	8671.9	8749.6	8852.6	8812.9	8848.1
10°	7977.3	8059.6	8140.2	8115.3	8163.7
12.5°	7326.7	7373.7	7432.3	7428.0	7479.4
15°	6517.4	6580.7	6639.4	6590.9	6610.1
17.5°	5504.2	5529.2	5573.2	5524.7	5538.0
20°	4166.3	4235.3	4260.3	4204.5	4266.2
22.5°	2606.7	2772.7	2785.8	2756.5	2664.0
25°	1114.6	1518.5	1566.9	1499.4	1097.0
27.5°	450.8	575.7	746.1	564.0	439.2
30°	255.6	277.5	324.6	273.2	259.9
32.5°	121.9	155.7	186.4	151.3	123.4
35°	64.7	80.8	111.5	79.4	63.2
37.5°	36.6	47.0	67.5	44.0	36.6
40°	22.0	27.9	39.7	26.4	20.5
42.5°	14.7	17.6	22.0	16.1	13.3
45°	10.2	10.2	13.3	10.2	8.8
47.5°	7.4	7.4	8.8	5.9	5.9
50°	5.9	5.9	5.9	4.5	4.5
52.5°	4.5	4.5	4.5	2.9	2.9
55°	2.9	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°	1.5	1.5	1.5	1.5	1.5
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

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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