

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: P182494

Luminaire Tested: **LDSQA4A13827D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182494
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: LDSQA4A13827D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1817.1 lumens
Efficiency: N/A
Efficacy: 81.6 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

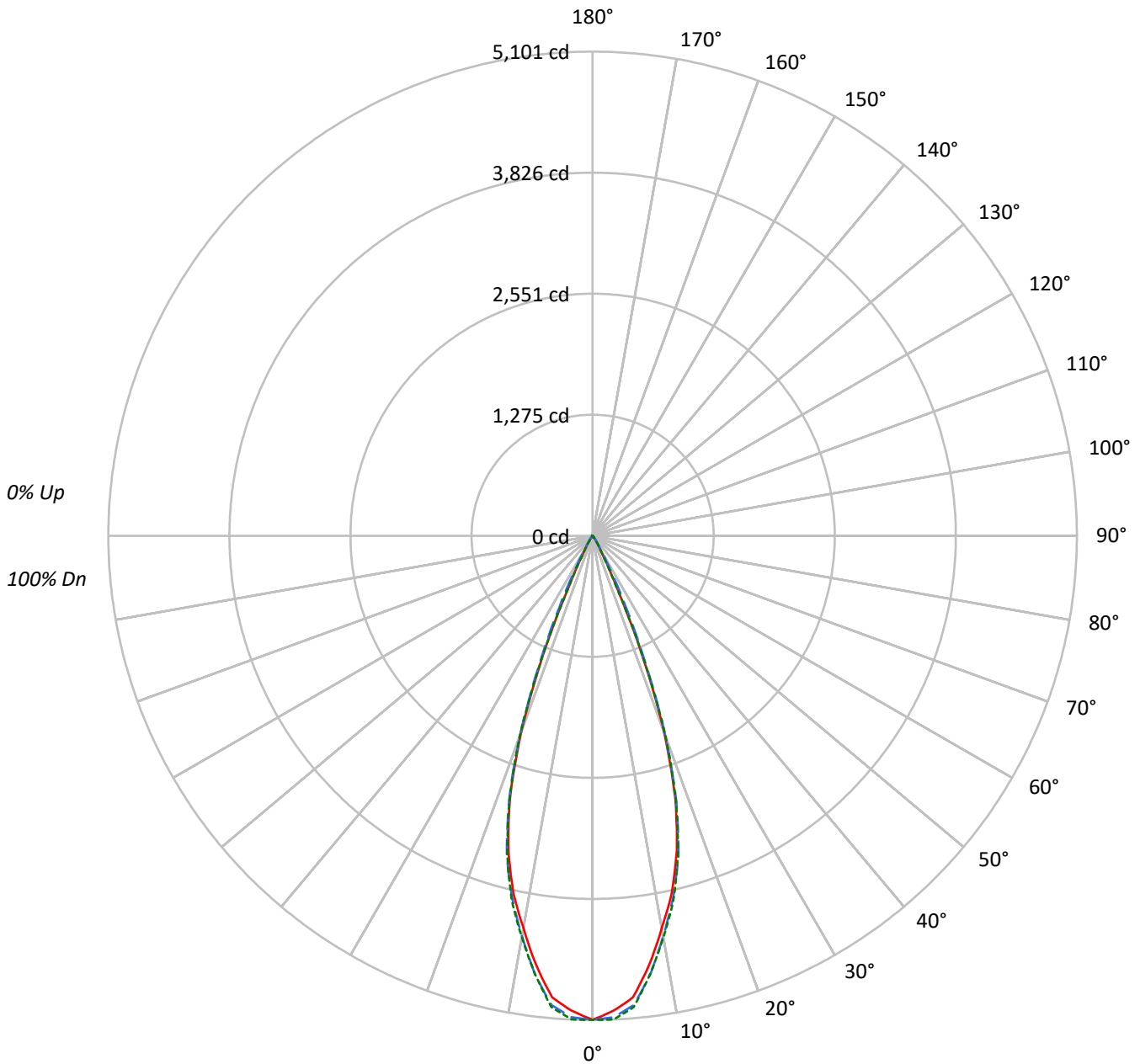
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	494026	494026	494026
5°	474723	482688	484642
10°	412809	421240	422459
15°	343864	350293	348738
20°	225948	231051	231361
25°	62680	88110	61686
30°	15034	19095	15292
35°	4021	6942	3926
40°	1467	2643	1366
45°	740	959	630
50°	467	467	347
55°	253	253	135
60°	291	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°	448.2	24.7
10°-20°	929.2	51.1
20°-30°	396.9	21.8
30°-40°	35.0	1.9
40°-50°	5.2	0.3
50°-60°	1.5	0.1
60°-70°	0.8	0.0
70°-80°	0.4	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°	1774.2	97.6
0°-40°	1809.3	99.6
0°-60°	1816.0	99.9
0°-90°	1817.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1817.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5100	5100	5100	5100	5100	
5°	4882	4922	4964	4956	4984	442
15°	3429	3462	3493	3467	3477	919
25°	586	799	824	789	577	360
35°	34	42	59	42	33	29
45°	5	5	7	5	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5099.6	5099.6	5099.6	5099.6	5099.6
2.5°	5010.0	5045.5	5077.2	5074.9	5101.1
5°	4881.7	4921.9	4963.6	4955.9	4983.7
7.5°	4561.9	4602.8	4656.9	4636.0	4654.6
10°	4196.5	4239.7	4282.2	4269.1	4294.6
12.5°	3854.2	3879.0	3909.9	3907.5	3934.6
15°	3428.6	3461.8	3492.7	3467.2	3477.2
17.5°	2895.5	2908.6	2931.8	2906.3	2913.3
20°	2191.7	2228.0	2241.2	2211.8	2244.2
22.5°	1371.3	1458.6	1465.5	1450.1	1401.4
25°	586.4	798.8	824.3	788.8	577.1
27.5°	237.2	302.8	392.5	296.7	231.0
30°	134.4	146.0	170.7	143.7	136.7
32.5°	64.1	81.9	98.1	79.6	64.9
35°	34.0	42.5	58.7	41.7	33.2
37.5°	19.3	24.7	35.5	23.2	19.3
40°	11.6	14.7	20.9	13.9	10.8
42.5°	7.7	9.3	11.6	8.5	7.0
45°	5.4	5.4	7.0	5.4	4.6
47.5°	3.9	3.9	4.6	3.1	3.1
50°	3.1	3.1	3.1	2.3	2.3
52.5°	2.3	2.3	2.3	1.5	1.5
55°	1.5	1.5	1.5	1.5	0.8
57.5°	1.5	1.5	1.5	0.8	0.8
60°	1.5	1.5	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°	0.8	0.8	0.8	0.8	0.8
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



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)