

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: P182482

Luminaire Tested: **LDSQA4A18927D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182482
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: LDSQA4A18927D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1817.0 lumens
Efficiency: N/A
Efficacy: 62.4 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

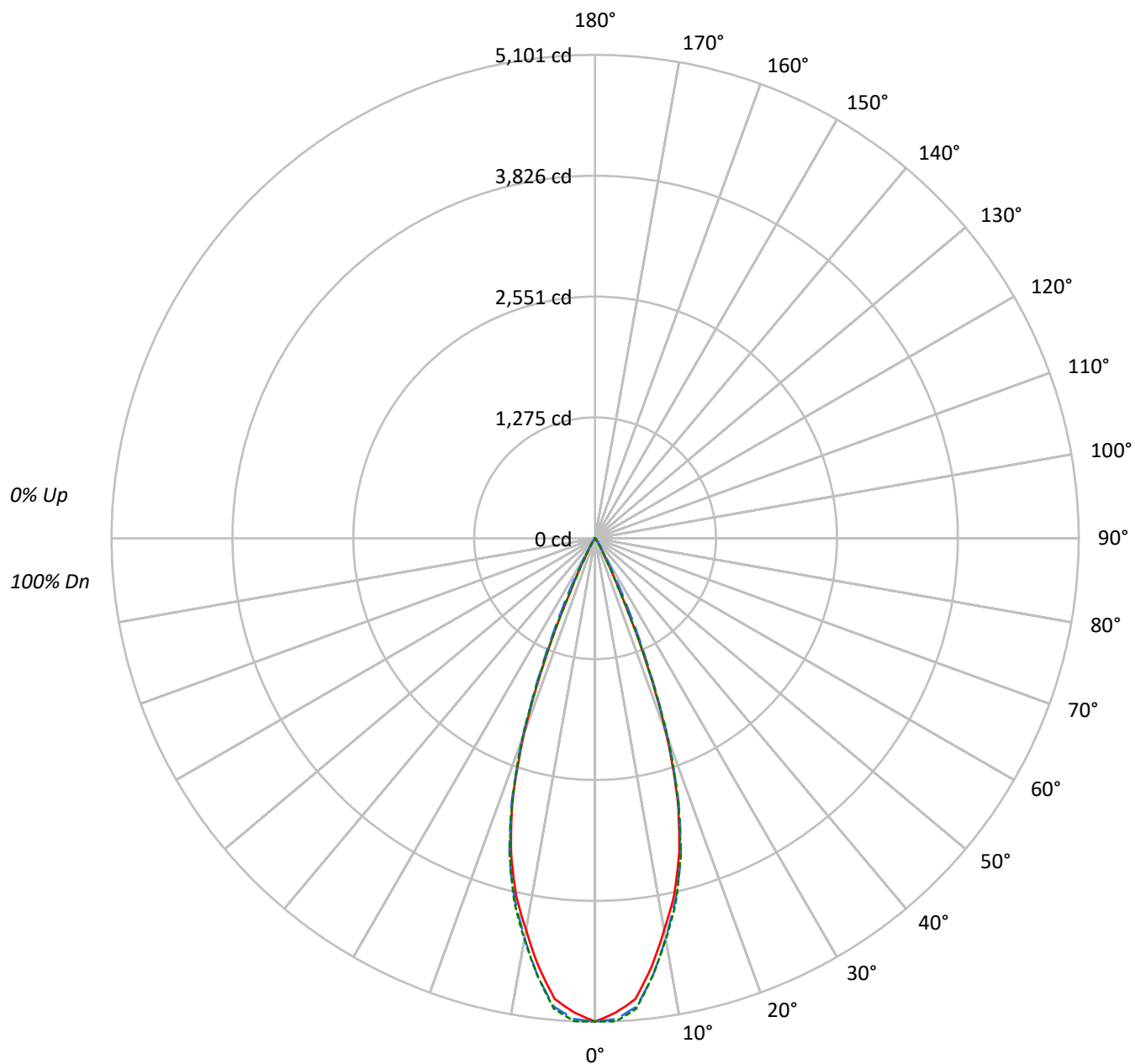
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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			100
1	115	113	111	109	112	110	109	107		107	105	104			103	102	101			96
2	111	107	104	101	109	105	103	100		102	100	98			99	98	96			93
3	107	102	98	95	105	101	97	95		98	96	93			96	94	92			89
4	103	98	94	91	102	97	93	90		95	92	89			93	90	88			86
5	100	94	90	86	99	93	89	86		91	88	85			90	87	85			83
6	97	90	86	83	96	90	85	82		88	85	82			87	84	81			80
7	94	87	83	79	93	86	82	79		85	82	79			84	81	79			77
8	91	84	80	77	90	83	79	76		82	79	76			82	78	76			74
9	88	81	77	74	87	81	77	74		80	76	73			79	76	73			72
10	86	78	74	71	85	78	74	71		77	74	71			77	73	71			70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	493978	493978	493978
5°	474684	482639	484594
10°	412770	421200	422420
15°	343824	350263	348708
20°	225928	231020	231340
25°	62670	88099	61676
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°	448.1	24.7
10°-20°	929.1	51.1
20°-30°	396.8	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°	1774.1	97.6
0°-40°	1809.1	99.6
0°-60°	1815.8	99.9
0°-90°	1817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5099	5099	5099	5099	5099	
5°	4881	4921	4963	4955	4983	442
15°	3428	3462	3492	3467	3477	919
25°	586	799	824	789	577	359
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5099.1	5099.1	5099.1	5099.1	5099.1
2.5°	5009.5	5045.0	5076.7	5074.4	5100.6
5°	4881.3	4921.4	4963.1	4955.4	4983.2
7.5°	4561.5	4602.4	4656.5	4635.6	4654.2
10°	4196.1	4239.3	4281.8	4268.7	4294.2
12.5°	3853.9	3878.6	3909.5	3907.2	3934.2
15°	3428.2	3461.5	3492.4	3466.9	3476.9
17.5°	2895.2	2908.4	2931.5	2906.0	2913.0
20°	2191.5	2227.8	2240.9	2211.6	2244.0
22.5°	1371.1	1458.4	1465.4	1449.9	1401.3
25°	586.3	798.7	824.2	788.7	577.0
27.5°	237.1	302.8	392.4	296.6	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)