

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: P182480

Luminaire Tested: **LDSQA4A18835D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182480
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: LDSQA4A18835D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2352.0 lumens
Efficiency: N/A
Efficacy: 80.8 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

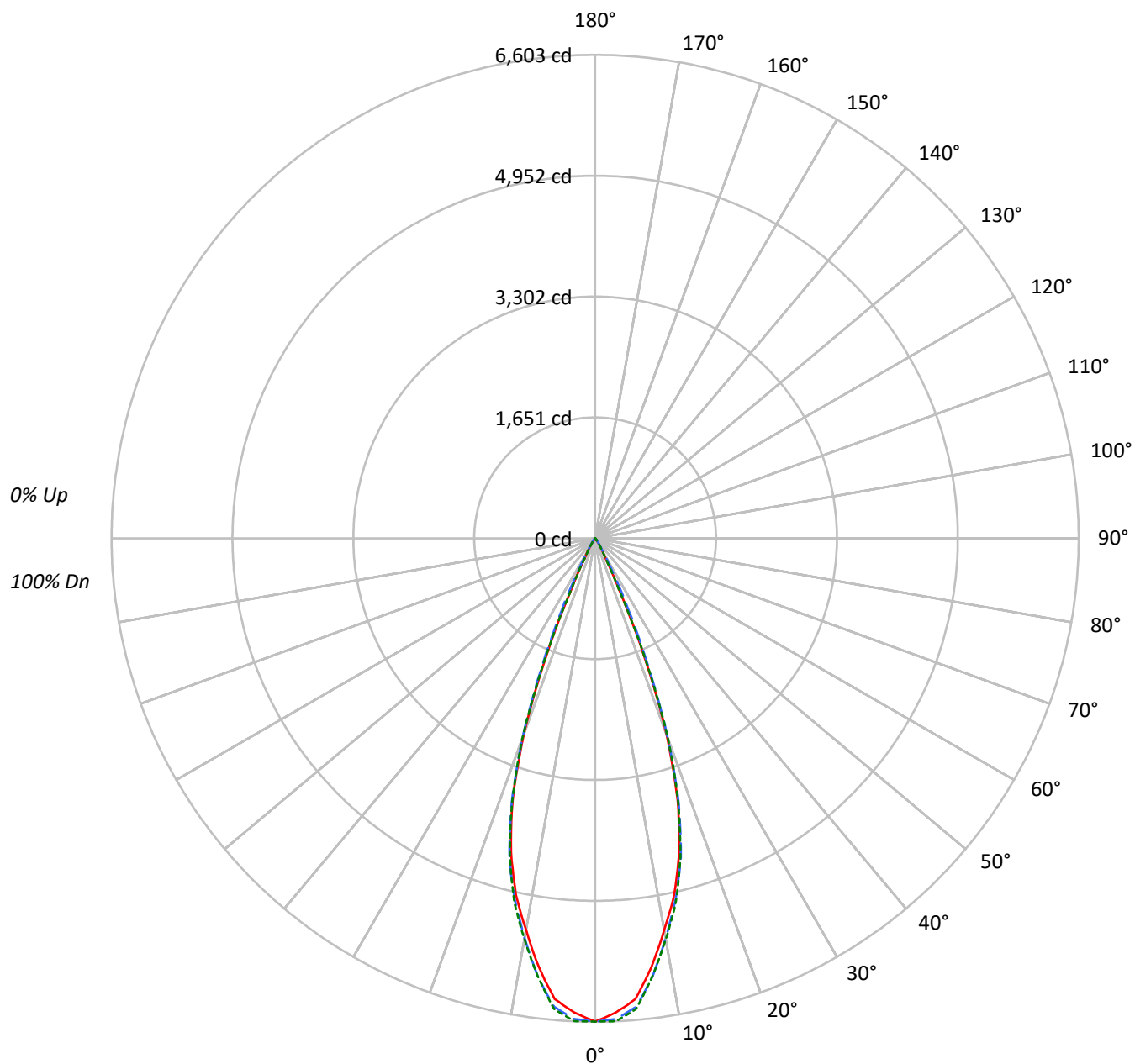
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	115	113	111	109	112	110	109	107		107	105	104			103	102	101			99
2	111	107	104	101	109	105	103	100		102	100	98			99	98	96			97
3	107	102	98	95	105	101	97	95		98	96	93			96	94	92			94
4	103	98	94	91	102	97	93	90		95	92	89			93	90	88			91
5	100	94	90	86	99	93	89	86		91	88	85			90	87	85			88
6	97	90	86	83	96	90	85	82		88	85	82			87	84	81			86
7	94	87	83	79	93	86	82	79		85	82	79			84	81	79			83
8	91	84	80	77	90	83	79	76		82	79	76			82	78	76			81
9	88	81	77	74	87	81	77	74		80	76	73			79	76	73			78
10	86	78	74	71	85	78	74	71		77	74	71			77	73	71			76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	639446	639446	639446
5°	614465	624773	627301
10°	534316	545235	546809
15°	445079	453404	451398
20°	292464	299062	299474
25°	81130	114041	79847
30°	19464	24722	19800
35°	5204	8988	5085
40°	1897	3414	1770
45°	959	1233	822
50°	603	603	452
55°	338	338	169
60°	388	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°	580.1	24.7
10°-20°	1202.7	51.1
20°-30°	513.7	21.8
30°-40°	45.4	1.9
40°-50°	6.8	0.3
50°-60°	1.9	0.1
60°-70°	1.0	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°	2296.5	97.6
0°-40°	2341.9	99.6
0°-60°	2350.5	99.9
0°-90°	2352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6601	6601	6601	6601	6601	
5°	6319	6371	6425	6415	6451	573
15°	4438	4481	4521	4488	4501	1190
25°	759	1034	1067	1021	747	465
35°	44	55	76	54	43	37
45°	7	7	9	7	6	6
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°	6600.7	6600.7	6600.7	6600.7	6600.7
2.5°	6484.7	6530.7	6571.7	6568.7	6602.7
5°	6318.7	6370.7	6424.7	6414.7	6450.7
7.5°	5904.7	5957.7	6027.7	6000.7	6024.7
10°	5431.7	5487.7	5542.7	5525.7	5558.7
12.5°	4988.8	5020.7	5060.7	5057.7	5092.7
15°	4437.8	4480.8	4520.8	4487.8	4500.8
17.5°	3747.8	3764.8	3794.8	3761.8	3770.8
20°	2836.9	2883.9	2900.9	2862.9	2904.9
22.5°	1774.9	1887.9	1896.9	1876.9	1813.9
25°	759.0	1033.9	1066.9	1020.9	747.0
27.5°	307.0	392.0	508.0	384.0	299.0
30°	174.0	189.0	221.0	186.0	177.0
32.5°	83.0	106.0	127.0	103.0	84.0
35°	44.0	55.0	76.0	54.0	43.0
37.5°	25.0	32.0	46.0	30.0	25.0
40°	15.0	19.0	27.0	18.0	14.0
42.5°	10.0	12.0	15.0	11.0	9.0
45°	7.0	7.0	9.0	7.0	6.0
47.5°	5.0	5.0	6.0	4.0	4.0
50°	4.0	4.0	4.0	3.0	3.0
52.5°	3.0	3.0	3.0	2.0	2.0
55°	2.0	2.0	2.0	2.0	1.0
57.5°	2.0	2.0	2.0	1.0	1.0
60°	2.0	2.0	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°	1.0	1.0	1.0	1.0	1.0
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°







(END OF REPORT)