

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: P182484

Luminaire Tested: **LDSQA4A18935D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182484
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: LDSQA4A18935D010TE 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: 1919.2 lumens
Efficiency: N/A
Efficacy: 65.9 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

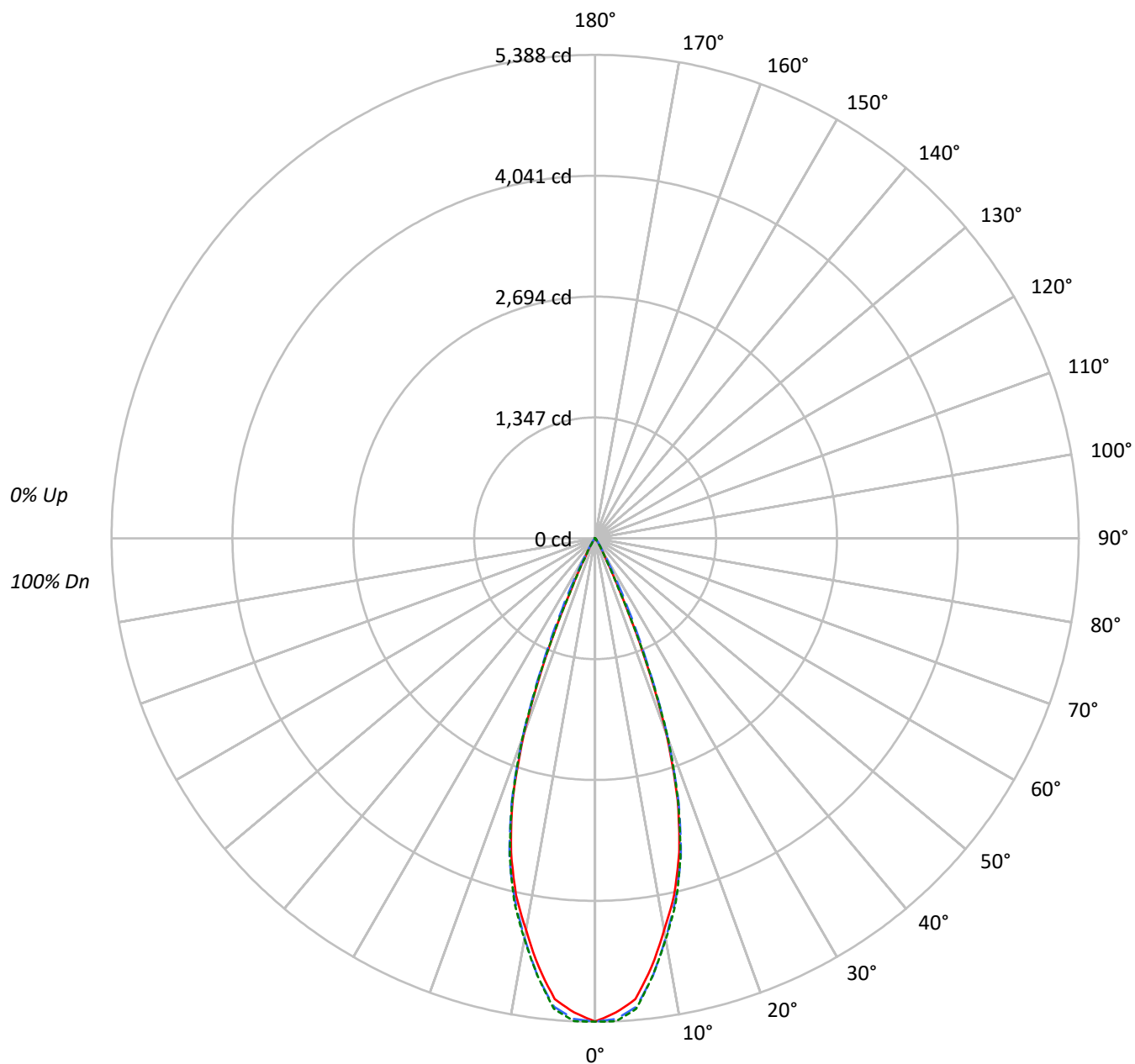
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	521800	521800	521800
5°	501417	509829	511890
10°	436015	444927	446216
15°	363190	369990	368355
20°	238660	244041	244371
25°	66197	93069	65150
30°	15884	20169	16153
35°	4246	7332	4151
40°	1543	2782	1442
45°	781	1000	671
50°	497	497	362
55°	270	270	135
60°	310	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°	473.4	24.7
10°-20°	981.5	51.1
20°-30°	419.2	21.8
30°-40°	37.0	1.9
40°-50°	5.5	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°	1874.0	97.6
0°-40°	1911.0	99.6
0°-60°	1918.1	99.9
0°-90°	1919.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1919.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5386	5386	5386	5386	5386	
5°	5156	5199	5243	5235	5264	467
15°	3621	3656	3689	3662	3673	971
25°	619	844	871	833	610	380
35°	36	45	62	44	35	30
45°	6	6	7	6	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°	5386.3	5386.3	5386.3	5386.3	5386.3
2.5°	5291.7	5329.2	5362.7	5360.2	5388.0
5°	5156.2	5198.7	5242.7	5234.6	5263.9
7.5°	4818.4	4861.6	4918.8	4896.7	4916.3
10°	4432.4	4478.1	4523.0	4509.1	4536.1
12.5°	4071.0	4097.1	4129.7	4127.3	4155.8
15°	3621.3	3656.4	3689.1	3662.1	3672.8
17.5°	3058.3	3072.2	3096.7	3069.7	3077.1
20°	2315.0	2353.3	2367.2	2336.2	2370.4
22.5°	1448.4	1540.6	1547.9	1531.6	1480.2
25°	619.3	843.7	870.7	833.1	609.5
27.5°	250.5	319.9	414.5	313.3	244.0
30°	142.0	154.2	180.3	151.8	144.4
32.5°	67.7	86.5	103.6	84.0	68.5
35°	35.9	44.9	62.0	44.1	35.1
37.5°	20.4	26.1	37.5	24.5	20.4
40°	12.2	15.5	22.0	14.7	11.4
42.5°	8.2	9.8	12.2	9.0	7.3
45°	5.7	5.7	7.3	5.7	4.9
47.5°	4.1	4.1	4.9	3.3	3.3
50°	3.3	3.3	3.3	2.4	2.4
52.5°	2.4	2.4	2.4	1.6	1.6
55°	1.6	1.6	1.6	1.6	0.8
57.5°	1.6	1.6	1.6	0.8	0.8
60°	1.6	1.6	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)