

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: P182478

Luminaire Tested: **LDSQA4A18827D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182478
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: LDSQA4A18827D010TE 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: 2263.9 lumens
Efficiency: N/A
Efficacy: 77.7 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

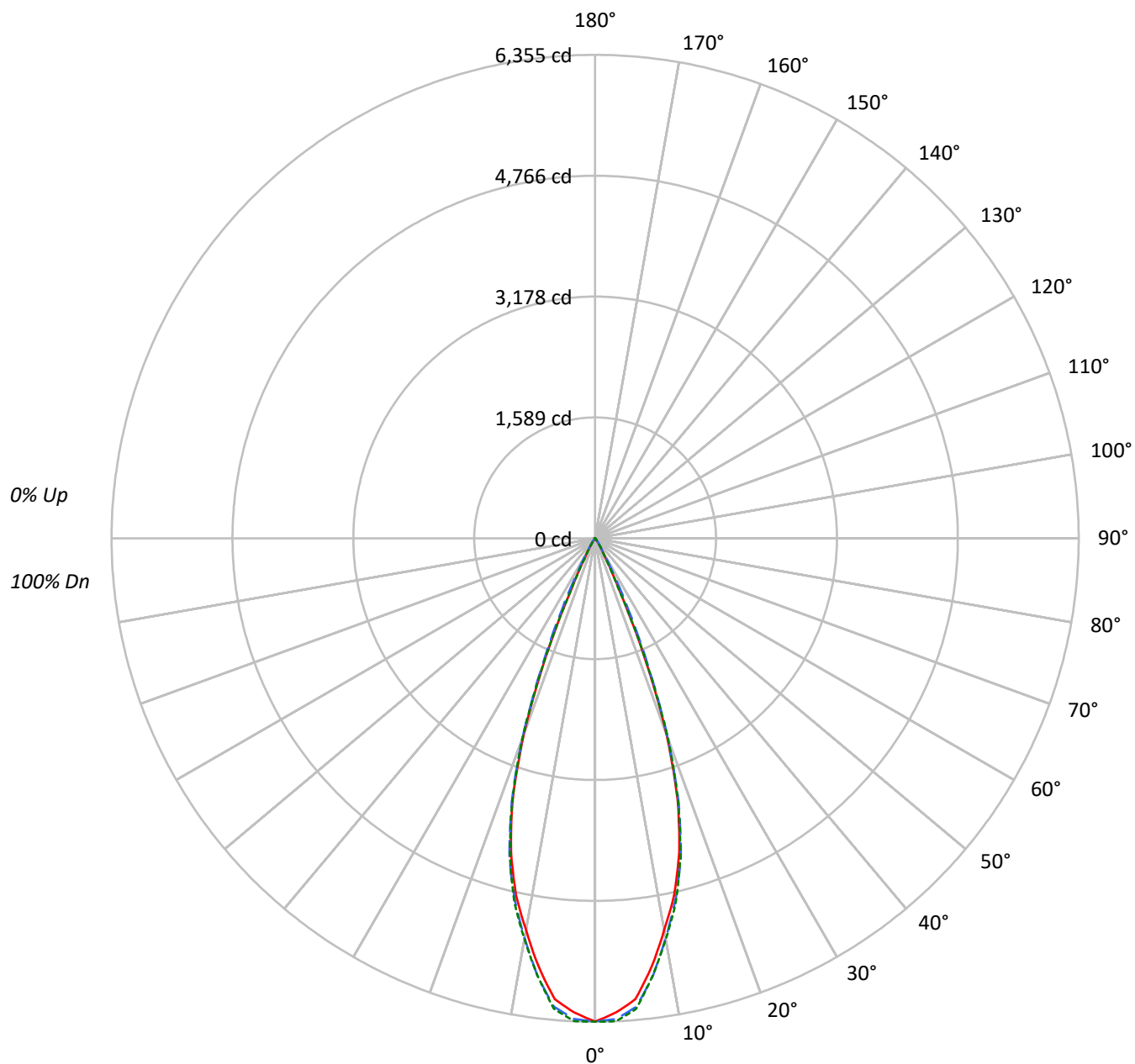
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	615479	615479	615479
5°	591428	601356	603787
10°	514288	524803	526318
15°	428391	436404	434479
20°	281495	287845	288247
25°	78083	109776	76854
30°	18737	23793	19061
35°	5003	8645	4896
40°	1821	3288	1707
45°	918	1192	795
50°	573	573	437
55°	321	321	169
60°	368	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°	558.3	24.7
10°-20°	1157.7	51.1
20°-30°	494.4	21.8
30°-40°	43.7	1.9
40°-50°	6.5	0.3
50°-60°	1.8	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°	2210.4	97.6
0°-40°	2254.1	99.6
0°-60°	2262.4	99.9
0°-90°	2263.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2263.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6353	6353	6353	6353	6353	
5°	6082	6132	6184	6174	6209	551
15°	4271	4313	4351	4320	4332	1145
25°	730	995	1027	983	719	448
35°	42	53	73	52	41	36
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6353.3	6353.3	6353.3	6353.3	6353.3
2.5°	6241.6	6285.9	6325.3	6322.5	6355.2
5°	6081.8	6131.9	6183.9	6174.2	6208.9
7.5°	5683.4	5734.4	5801.8	5775.8	5798.9
10°	5228.1	5282.0	5335.0	5318.6	5350.4
12.5°	4801.8	4832.6	4871.1	4868.2	4901.9
15°	4271.4	4312.8	4351.3	4319.6	4332.1
17.5°	3607.3	3623.7	3652.6	3620.8	3629.5
20°	2730.5	2775.8	2792.1	2755.5	2796.0
22.5°	1708.4	1817.1	1825.8	1806.6	1745.9
25°	730.5	995.2	1027.0	982.7	719.0
27.5°	295.5	377.3	488.9	369.6	287.8
30°	167.5	181.9	212.7	179.0	170.4
32.5°	79.9	102.0	122.2	99.1	80.8
35°	42.3	52.9	73.1	52.0	41.4
37.5°	24.1	30.8	44.3	28.9	24.1
40°	14.4	18.3	26.0	17.3	13.5
42.5°	9.6	11.5	14.4	10.6	8.7
45°	6.7	6.7	8.7	6.7	5.8
47.5°	4.8	4.8	5.8	3.8	3.8
50°	3.8	3.8	3.8	2.9	2.9
52.5°	2.9	2.9	2.9	1.9	1.9
55°	1.9	1.9	1.9	1.9	1.0
57.5°	1.9	1.9	1.9	1.0	1.0
60°	1.9	1.9	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)