

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: P182603

Luminaire Tested: **LDSQA4A28930D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26798)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A28930D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2417.8 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

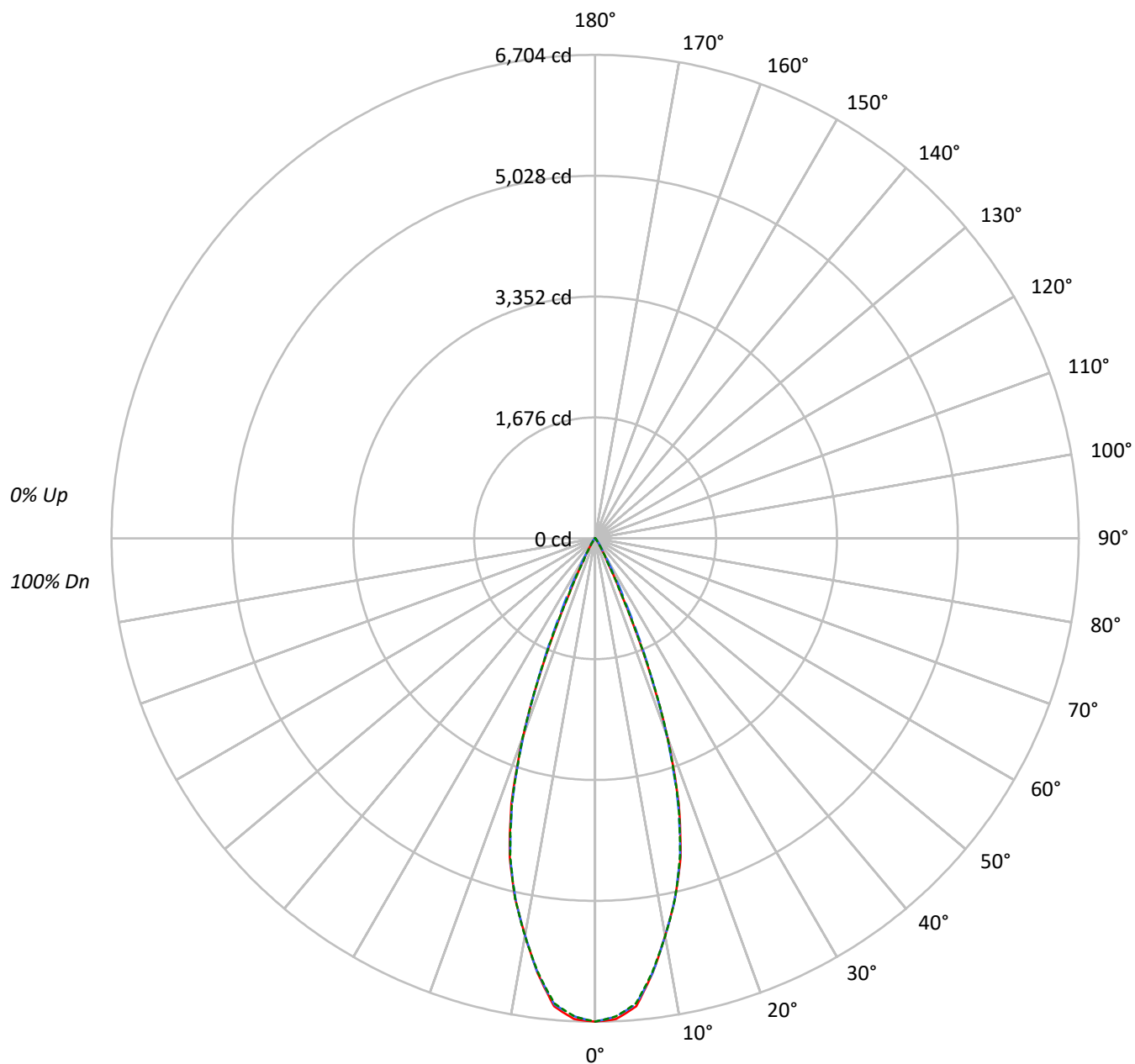
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	94	92		94	92	90
4	103	98	93	90	102	97	93	90		95	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	87	84		88	86	84
6	97	90	86	82	95	89	85	82		88	84	82		87	83	81		85	83	81
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		79	76	73		79	75	73		78	75	73
10	85	78	74	71	84	78	74	71		77	73	71		76	73	70		76	72	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	649443	649443	649443
5°	633729	630929	629742
10°	550330	550222	550881
15°	459040	456603	456382
20°	301103	298711	301330
25°	92075	116457	91722
30°	23032	27865	22540
35°	7462	11519	7332
40°	3503	5463	3086
45°	1822	2274	1370
50°	995	1176	663
55°	557	743	372
60°	426	426	426
65°	252	252	252
70°	312	312	312
75°	0	412	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.9	24.4
10°-20°	1220.3	50.5
20°-30°	532.9	22.0
30°-40°	58.2	2.4
40°-50°	12.0	0.5
50°-60°	3.3	0.1
60°-70°	1.4	0.1
70°-80°	0.8	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°	2342.2	96.9
0°-40°	2400.3	99.3
0°-60°	2415.7	99.9
0°-90°	2417.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2417.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6704	6704	6704	6704	6704	
5°	6517	6499	6488	6505	6476	590
15°	4577	4557	4553	4559	4550	1224
25°	861	1062	1090	1072	858	498
35°	63	75	97	74	62	50
45°	13	14	17	12	10	11
55°	3	3	4	2	2	3
65°	1	1	1	1	1	1
75°	0	1	1	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°	6703.9	6703.9	6703.9	6703.9	6703.9
2.5°	6674.0	6649.7	6636.4	6665.2	6636.4
5°	6516.8	6499.1	6488.0	6504.6	6475.8
7.5°	6086.1	6068.4	6083.9	6083.9	6069.5
10°	5594.5	5584.6	5593.4	5616.7	5600.1
12.5°	5117.3	5109.6	5112.9	5137.3	5118.4
15°	4577.0	4557.1	4552.7	4559.3	4550.5
17.5°	3857.4	3827.5	3808.7	3824.2	3828.6
20°	2920.7	2920.7	2897.5	2910.7	2922.9
22.5°	1867.8	1911.0	1915.4	1913.2	1905.4
25°	861.4	1061.8	1089.5	1071.7	858.1
27.5°	348.8	430.7	535.9	444.0	336.6
30°	205.9	217.0	249.1	213.7	201.5
32.5°	108.5	130.6	152.8	129.5	105.2
35°	63.1	75.3	97.4	74.2	62.0
37.5°	41.0	47.6	65.3	47.6	38.8
40°	27.7	31.0	43.2	29.9	24.4
42.5°	18.8	21.0	27.7	18.8	15.5
45°	13.3	14.4	16.6	12.2	10.0
47.5°	8.9	10.0	11.1	7.8	6.6
50°	6.6	6.6	7.8	5.5	4.4
52.5°	4.4	5.5	5.5	3.3	3.3
55°	3.3	3.3	4.4	2.2	2.2
57.5°	3.3	3.3	3.3	2.2	2.2
60°	2.2	2.2	2.2	2.2	2.2
62.5°	1.1	2.2	2.2	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1
75°	0.0	1.1	1.1	0.0	0.0
77.5°	0.0	1.1	1.1	1.1	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)