

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: P182495

Luminaire Tested: **LDSQA4A13830D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182495
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: LDSQA4A13830D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1854.6 lumens
Efficiency: N/A
Efficacy: 83.3 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

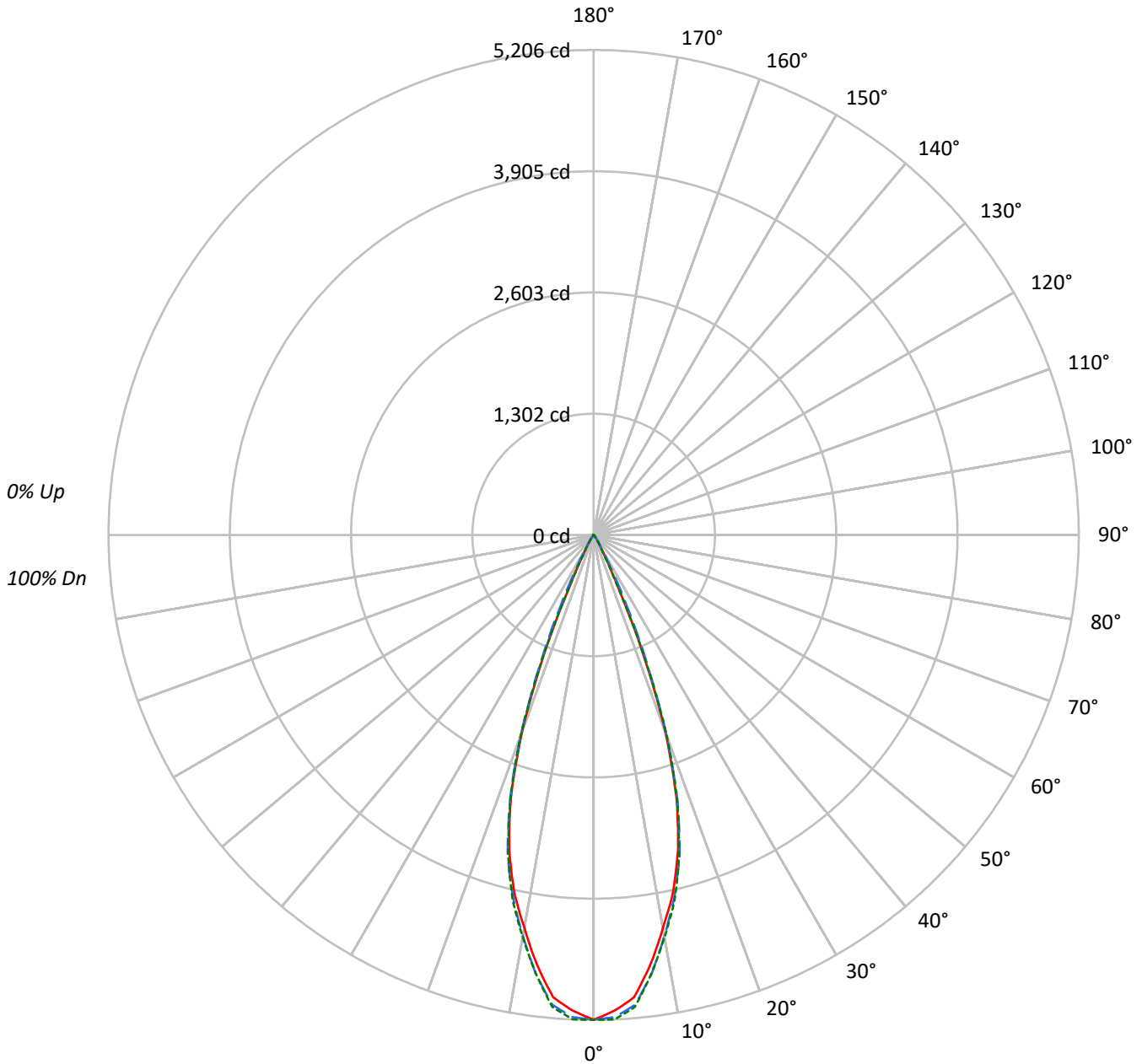
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	504198	504198	504198
5°	484496	492626	494620
10°	421308	429916	431155
15°	350945	357504	355919
20°	230598	235804	236134
25°	63963	89927	62958
30°	15347	19486	15616
35°	4104	7084	4009
40°	1492	2694	1391
45°	754	973	644
50°	482	482	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°	457.4	24.7
10°-20°	948.4	51.1
20°-30°	405.0	21.8
30°-40°	35.8	1.9
40°-50°	5.3	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°	1810.8	97.6
0°-40°	1846.5	99.6
0°-60°	1853.4	99.9
0°-90°	1854.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1854.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5205	5205	5205	5205	5205	
5°	4982	5023	5066	5058	5086	452
15°	3499	3533	3565	3539	3549	938
25°	598	815	841	805	589	367
35°	35	43	60	43	34	29
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°	5204.6	5204.6	5204.6	5204.6	5204.6
2.5°	5113.1	5149.4	5181.7	5179.3	5206.2
5°	4982.2	5023.2	5065.8	5057.9	5086.3
7.5°	4655.8	4697.6	4752.8	4731.5	4750.4
10°	4282.9	4327.0	4370.4	4357.0	4383.0
12.5°	3933.6	3958.8	3990.4	3988.0	4015.6
15°	3499.2	3533.1	3564.6	3538.6	3548.8
17.5°	2955.1	2968.5	2992.2	2966.2	2973.3
20°	2236.8	2273.9	2287.3	2257.3	2290.5
22.5°	1399.5	1488.6	1495.7	1479.9	1430.3
25°	598.4	815.3	841.3	805.0	589.0
27.5°	242.1	309.1	400.5	302.8	235.7
30°	137.2	149.0	174.2	146.7	139.6
32.5°	65.4	83.6	100.1	81.2	66.2
35°	34.7	43.4	59.9	42.6	33.9
37.5°	19.7	25.2	36.3	23.7	19.7
40°	11.8	15.0	21.3	14.2	11.0
42.5°	7.9	9.5	11.8	8.7	7.1
45°	5.5	5.5	7.1	5.5	4.7
47.5°	3.9	3.9	4.7	3.2	3.2
50°	3.2	3.2	3.2	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)