

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: P182595

Luminaire Tested: **LDSQA4A13930D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182595
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: LDSQA4A13930D010TE 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: 1416.8 lumens
Efficiency: N/A
Efficacy: 63.6 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

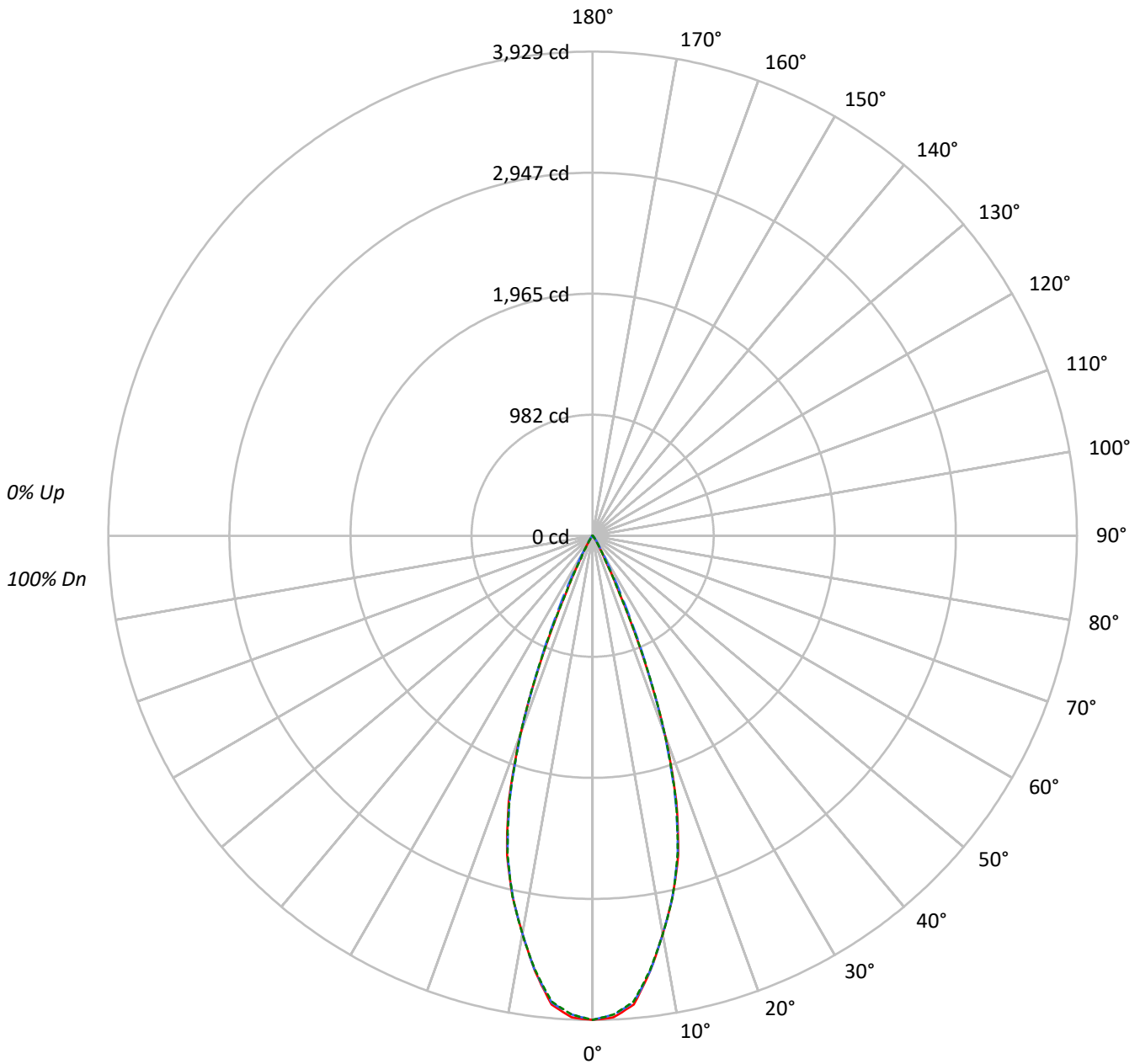
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
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	106	105	104	103	102	101	99	99	98	96																											
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																											
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89																											
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86																											
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	84	82																											
6	97	90	86	82	95	89	85	82	88	84	82	87	83	81	86	83	81	79																											
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																											
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																											
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72																											
10	85	78	74	71	84	78	74	71	77	73	71	76	73	70	76	72	70	69																											

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	380594	380594	380594
5°	371390	369747	369056
10°	322516	322447	322830
15°	269015	267581	267451
20°	176453	175051	176587
25°	53958	68249	53744
30°	13502	16332	13211
35°	4376	6753	4293
40°	2049	3199	1808
45°	1069	1329	795
50°	588	678	392
55°	321	439	220
60°	252	252	252
65°	138	138	138
70°	170	170	170
75°	0	225	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.1	24.4
10°-20°	715.2	50.5
20°-30°	312.3	22.0
30°-40°	34.1	2.4
40°-50°	7.0	0.5
50°-60°	1.9	0.1
60°-70°	0.8	0.1
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°	1372.6	96.9
0°-40°	1406.7	99.3
0°-60°	1415.6	99.9
0°-90°	1416.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1416.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3929	3929	3929	3929	3929	
5°	3819	3809	3802	3812	3795	346
15°	2682	2671	2668	2672	2667	718
25°	505	622	638	628	503	292
35°	37	44	57	44	36	29
45°	8	8	10	7	6	6
55°	2	2	3	1	1	2
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3928.7	3928.7	3928.7	3928.7	3928.7
2.5°	3911.2	3896.9	3889.1	3906.0	3889.1
5°	3819.1	3808.7	3802.2	3811.9	3795.1
7.5°	3566.7	3556.3	3565.4	3565.4	3556.9
10°	3278.6	3272.7	3277.9	3291.6	3281.8
12.5°	2998.9	2994.4	2996.3	3010.6	2999.6
15°	2682.3	2670.6	2668.0	2671.9	2666.7
17.5°	2260.6	2243.0	2232.0	2241.1	2243.7
20°	1711.6	1711.6	1698.0	1705.8	1712.9
22.5°	1094.6	1119.9	1122.5	1121.2	1116.7
25°	504.8	622.2	638.5	628.1	502.8
27.5°	204.4	252.4	314.0	260.2	197.2
30°	120.7	127.2	146.0	125.2	118.1
32.5°	63.6	76.6	89.5	75.9	61.6
35°	37.0	44.1	57.1	43.5	36.3
37.5°	24.0	27.9	38.3	27.9	22.7
40°	16.2	18.2	25.3	17.5	14.3
42.5°	11.0	12.3	16.2	11.0	9.1
45°	7.8	8.4	9.7	7.1	5.8
47.5°	5.2	5.8	6.5	4.5	3.9
50°	3.9	3.9	4.5	3.2	2.6
52.5°	2.6	3.2	3.2	1.9	1.9
55°	1.9	1.9	2.6	1.3	1.3
57.5°	1.9	1.9	1.9	1.3	1.3
60°	1.3	1.3	1.3	1.3	1.3
62.5°	0.6	1.3	1.3	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.6	0.6	0.0	0.0
77.5°	0.0	0.6	0.6	0.6	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)