

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: P182579

Luminaire Tested: **LDSQA4A18930D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182579
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: LDSQA4A18930D010TE 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: 1765.2 lumens
Efficiency: N/A
Efficacy: 60.6 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

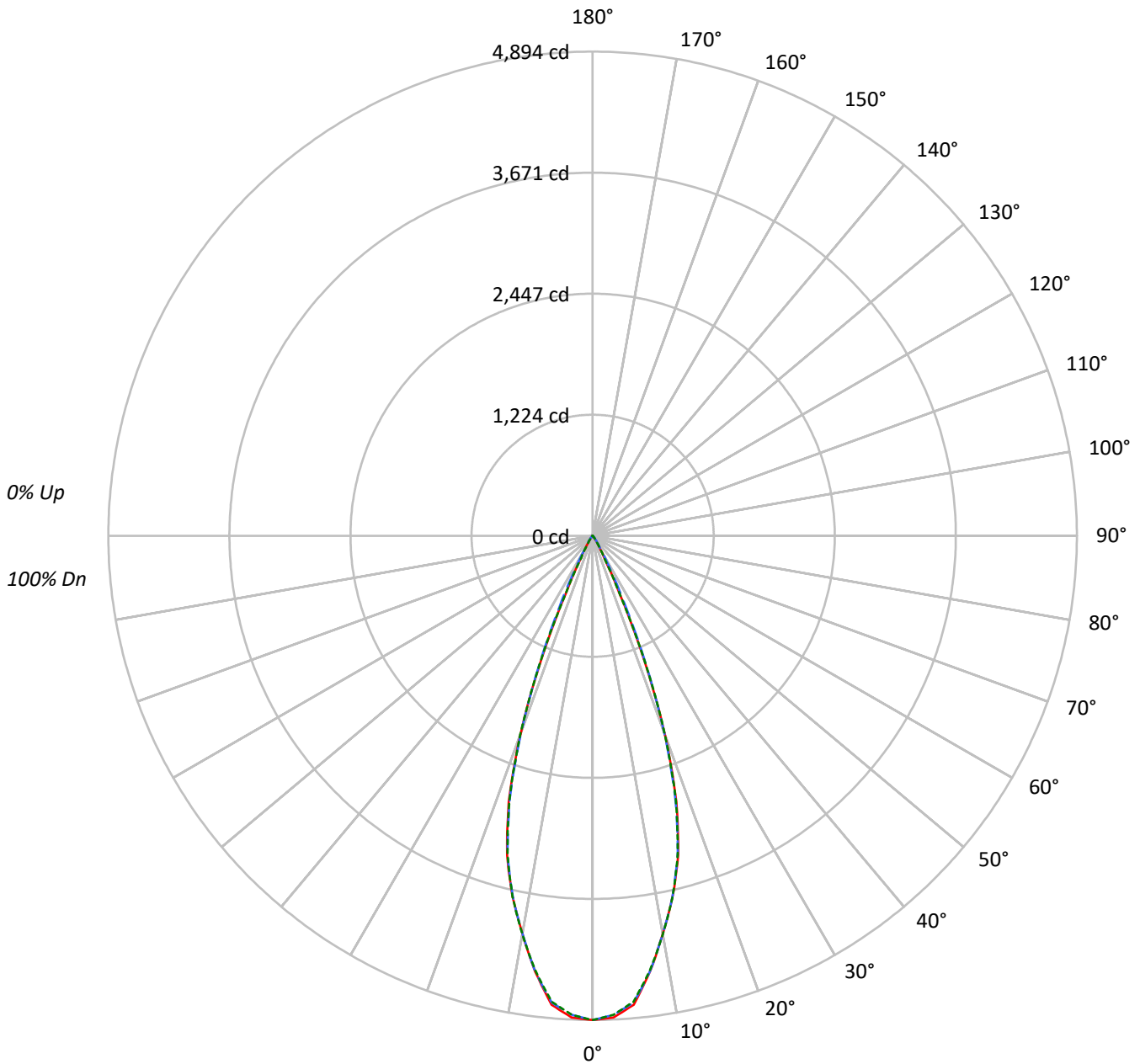
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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	85	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°	474157	474157	474157
5°	462684	460642	459777
10°	401802	401723	402195
15°	335149	333363	333203
20°	219835	218082	220000
25°	67223	85020	66967
30°	16824	20348	16455
35°	5452	8409	5357
40°	2555	3984	2251
45°	1329	1658	1000
50°	738	859	482
55°	405	540	270
60°	310	310	310
65°	183	183	183
70°	227	227	227
75°	0	299	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.0	24.4
10°-20°	891.0	50.5
20°-30°	389.1	22.0
30°-40°	42.5	2.4
40°-50°	8.8	0.5
50°-60°	2.4	0.1
60°-70°	1.0	0.1
70°-80°	0.6	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°	1710.0	96.9
0°-40°	1752.5	99.3
0°-60°	1763.7	99.9
0°-90°	1765.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1765.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4894	4894	4894	4894	4894	
5°	4758	4745	4737	4749	4728	431
15°	3342	3327	3324	3329	3322	894
25°	629	775	795	782	626	364
35°	46	55	71	54	45	36
45°	10	10	12	9	7	8
55°	2	2	3	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4894.5	4894.5	4894.5	4894.5	4894.5
2.5°	4872.7	4854.9	4845.2	4866.3	4845.2
5°	4757.9	4745.0	4736.9	4749.0	4728.0
7.5°	4443.5	4430.6	4441.9	4441.9	4431.4
10°	4084.6	4077.3	4083.8	4100.8	4088.6
12.5°	3736.2	3730.5	3733.0	3750.7	3737.0
15°	3341.7	3327.2	3323.9	3328.8	3322.3
17.5°	2816.3	2794.5	2780.7	2792.0	2795.3
20°	2132.4	2132.4	2115.4	2125.1	2134.0
22.5°	1363.7	1395.2	1398.4	1396.8	1391.2
25°	628.9	775.2	795.4	782.5	626.5
27.5°	254.6	314.4	391.2	324.1	245.7
30°	150.4	158.4	181.9	156.0	147.1
32.5°	79.2	95.4	111.6	94.6	76.8
35°	46.1	55.0	71.1	54.2	45.3
37.5°	29.9	34.8	47.7	34.8	28.3
40°	20.2	22.6	31.5	21.8	17.8
42.5°	13.7	15.4	20.2	13.7	11.3
45°	9.7	10.5	12.1	8.9	7.3
47.5°	6.5	7.3	8.1	5.7	4.9
50°	4.9	4.9	5.7	4.0	3.2
52.5°	3.2	4.0	4.0	2.4	2.4
55°	2.4	2.4	3.2	1.6	1.6
57.5°	2.4	2.4	2.4	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6
62.5°	0.8	1.6	1.6	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	0.8
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.8	0.8	0.0	0.0
77.5°	0.0	0.8	0.8	0.8	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)