

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: P182481

Luminaire Tested: **LDSQA4A18840D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182481
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: LDSQA4A18840D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2466.4 lumens
Efficiency: N/A
Efficacy: 84.7 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

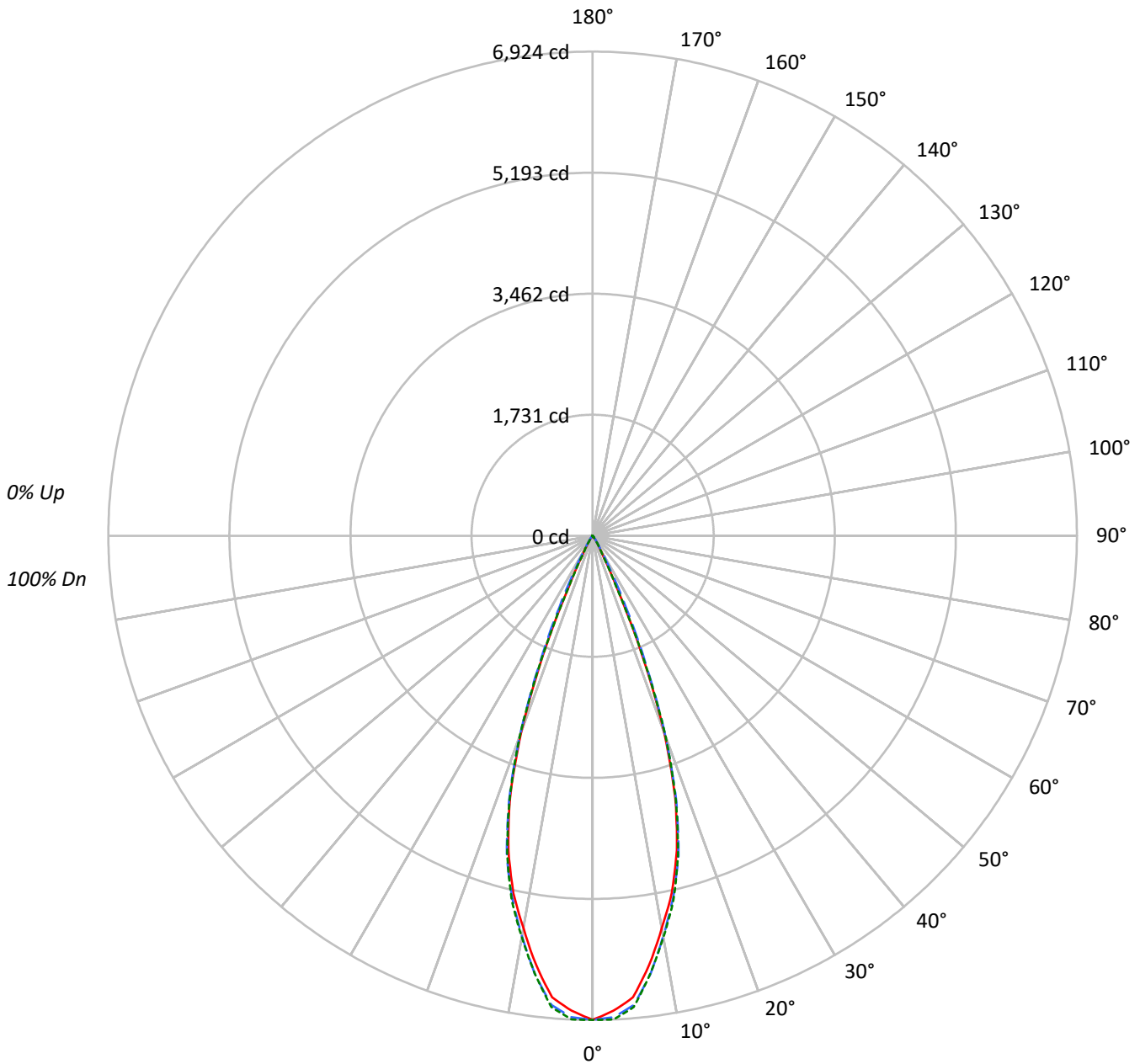
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	670572	670572	670572
5°	644378	655191	657836
10°	560335	571785	573437
15°	466743	475478	473372
20°	306701	313618	314051
25°	85074	119599	83727
30°	20415	25918	20762
35°	5452	9426	5334
40°	1985	3579	1859
45°	1000	1288	863
50°	633	633	467
55°	355	355	169
60°	407	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°	608.3	24.7
10°-20°	1261.3	51.1
20°-30°	538.7	21.8
30°-40°	47.6	1.9
40°-50°	7.1	0.3
50°-60°	2.0	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°	2408.3	97.6
0°-40°	2455.9	99.6
0°-60°	2465.0	99.9
0°-90°	2466.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2466.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6922	6922	6922	6922	6922	
5°	6626	6681	6738	6727	6765	601
15°	4654	4699	4741	4706	4720	1248
25°	796	1084	1119	1071	783	488
35°	46	58	80	57	45	39
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6922.0	6922.0	6922.0	6922.0	6922.0
2.5°	6800.4	6848.6	6891.6	6888.5	6924.1
5°	6626.3	6680.8	6737.5	6727.0	6764.7
7.5°	6192.2	6247.8	6321.2	6292.9	6318.0
10°	5696.2	5754.9	5812.6	5794.7	5829.4
12.5°	5231.6	5265.2	5307.1	5304.0	5340.7
15°	4653.8	4698.9	4740.9	4706.3	4719.9
17.5°	3930.3	3948.1	3979.6	3945.0	3954.4
20°	2975.0	3024.3	3042.1	3002.2	3046.3
22.5°	1861.3	1979.8	1989.3	1968.3	1902.2
25°	795.9	1084.3	1118.9	1070.7	783.3
27.5°	321.9	411.1	532.7	402.7	313.5
30°	182.5	198.2	231.7	195.0	185.6
32.5°	87.0	111.2	133.2	108.0	88.1
35°	46.1	57.7	79.7	56.6	45.1
37.5°	26.2	33.6	48.2	31.5	26.2
40°	15.7	19.9	28.3	18.9	14.7
42.5°	10.5	12.6	15.7	11.5	9.4
45°	7.3	7.3	9.4	7.3	6.3
47.5°	5.2	5.2	6.3	4.2	4.2
50°	4.2	4.2	4.2	3.1	3.1
52.5°	3.1	3.1	3.1	2.1	2.1
55°	2.1	2.1	2.1	2.1	1.0
57.5°	2.1	2.1	2.1	1.0	1.0
60°	2.1	2.1	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)