

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: P182502

Luminaire Tested: **LDSQA4A28827D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182502
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: LDSQA4A28827D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3100.7 lumens
Efficiency: N/A
Efficacy: 69.7 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

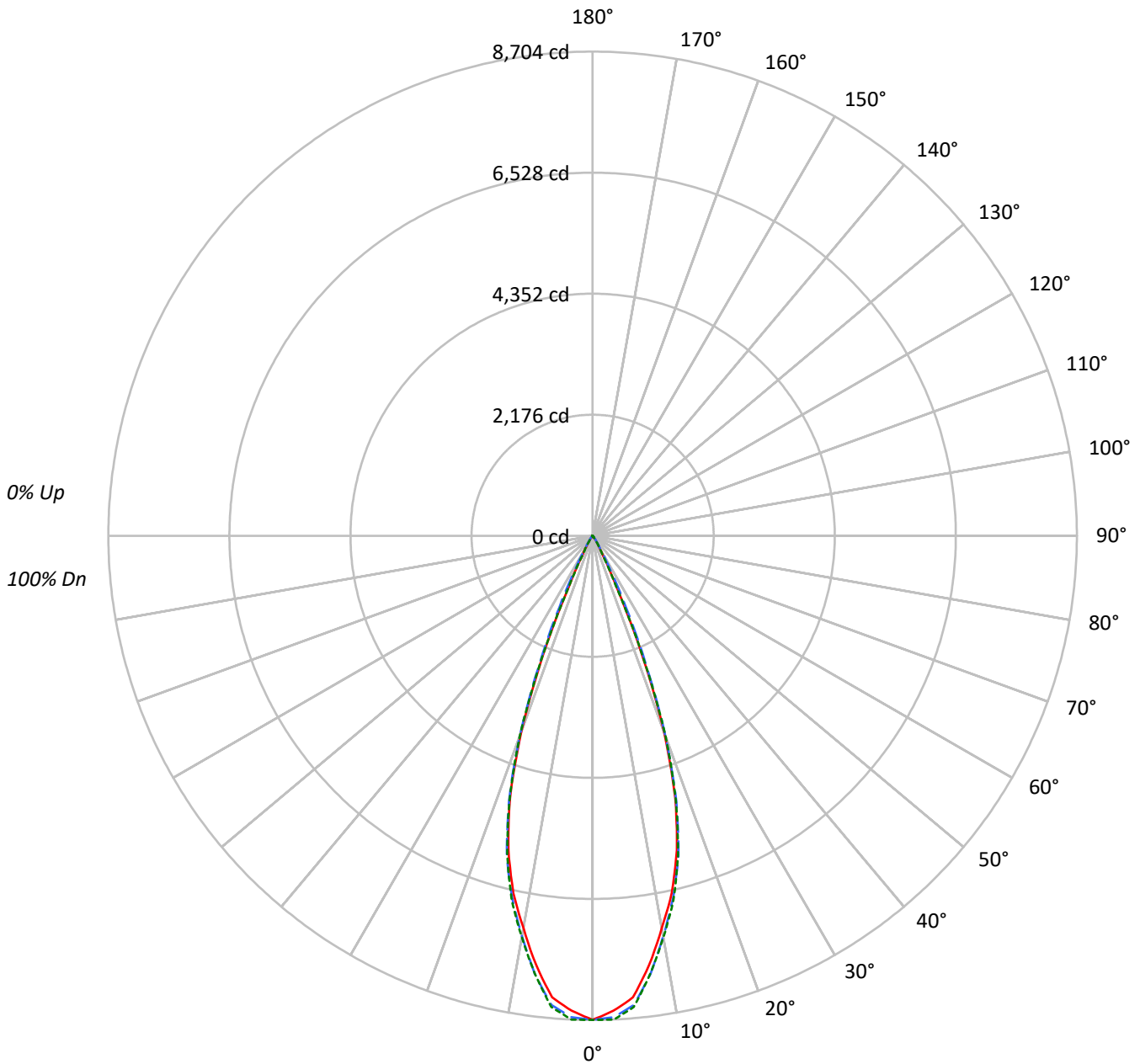
Input Watts (W): 44.49
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	842991	842991	842991
5°	810065	823650	826985
10°	704407	718799	720874
15°	586753	597735	595087
20°	385556	394257	394804
25°	106954	150352	105255
30°	25661	32585	26097
35°	6859	11850	6706
40°	2504	4502	2340
45°	1260	1630	1082
50°	799	799	603
55°	439	439	220
60°	504	252	252
65°	298	298	298
70°	368	368	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.7	24.7
10°-20°	1585.6	51.1
20°-30°	677.2	21.8
30°-40°	59.8	1.9
40°-50°	8.9	0.3
50°-60°	2.5	0.1
60°-70°	1.3	0.0
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°	3027.5	97.6
0°-40°	3087.3	99.6
0°-60°	3098.8	99.9
0°-90°	3100.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3100.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8702	8702	8702	8702	8702	
5°	8330	8399	8470	8457	8504	755
15°	5850	5907	5960	5916	5934	1569
25°	1001	1363	1407	1346	985	613
35°	58	72	100	71	57	49
45°	9	9	12	9	8	8
55°	3	3	3	3	1	3
65°	1	1	1	1	1	1
75°	0	1	0	0	0	1
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°	8701.8	8701.8	8701.8	8701.8	8701.8
2.5°	8548.9	8609.6	8663.6	8659.7	8704.5
5°	8330.1	8398.6	8469.8	8456.7	8504.1
7.5°	7784.3	7854.2	7946.5	7910.9	7942.5
10°	7160.8	7234.6	7307.1	7284.7	7328.2
12.5°	6576.8	6619.0	6671.7	6667.8	6713.9
15°	5850.4	5907.1	5959.9	5916.4	5933.5
17.5°	4940.8	4963.3	5002.8	4959.3	4971.2
20°	3739.9	3801.9	3824.3	3774.2	3829.6
22.5°	2339.9	2488.9	2500.7	2474.4	2391.3
25°	1000.6	1363.1	1406.6	1345.9	984.7
27.5°	404.7	516.8	669.7	506.2	394.2
30°	229.4	249.2	291.3	245.2	233.3
32.5°	109.4	139.7	167.4	135.8	110.7
35°	58.0	72.5	100.2	71.2	56.7
37.5°	33.0	42.2	60.6	39.5	33.0
40°	19.8	25.0	35.6	23.7	18.5
42.5°	13.2	15.8	19.8	14.5	11.9
45°	9.2	9.2	11.9	9.2	7.9
47.5°	6.6	6.6	7.9	5.3	5.3
50°	5.3	5.3	5.3	4.0	4.0
52.5°	4.0	4.0	4.0	2.6	2.6
55°	2.6	2.6	2.6	2.6	1.3
57.5°	2.6	2.6	2.6	1.3	1.3
60°	2.6	2.6	1.3	1.3	1.3
62.5°	1.3	1.3	1.3	1.3	1.3
65°	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	0.0
72.5°	1.3	1.3	1.3	1.3	1.3
75°	0.0	1.3	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)