

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: P182448

Luminaire Tested: **LDSQA4A18835D010TE LAR25NF 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26785)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A18835D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2321.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

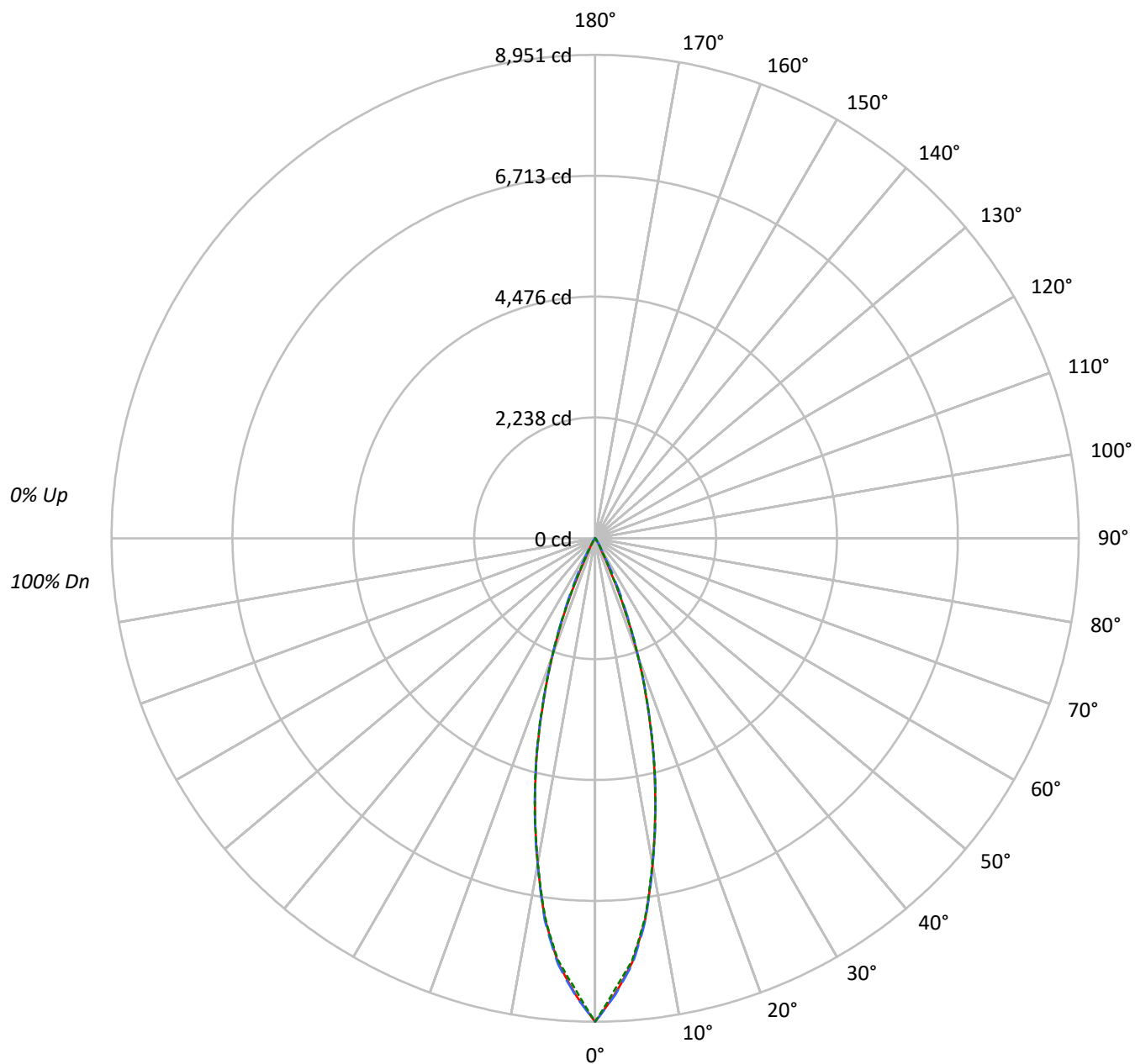
Input Watts (W): 29.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	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			100
1	115	113	111	109	113	111	109	107		107	105	104			103	102	101			97
2	111	108	105	102	109	106	103	101		103	101	99			100	98	97			93
3	108	103	99	96	106	102	98	96		99	96	94			97	95	93			90
4	104	99	95	92	103	98	94	91		96	93	90			94	91	89			87
5	101	95	91	88	100	94	90	88		93	89	87			91	88	86			84
6	98	92	88	84	97	91	87	84		90	86	84			88	85	83			82
7	95	89	84	81	94	88	84	81		87	83	81			86	83	80			79
8	92	86	82	79	91	85	81	79		84	81	78			84	80	78			77
9	90	83	79	76	89	83	79	76		82	78	76			81	78	76			74
10	87	81	77	74	87	80	76	74		80	76	74			79	76	73			72

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	867151	867151	867151
5°	766518	769144	762628
10°	602466	603155	600597
15°	419384	420588	420889
20°	237917	239464	240288
25°	64123	97046	72140
30°	15884	21701	16332
35°	4731	9934	5085
40°	1897	3288	1897
45°	959	1370	822
50°	603	603	301
55°	507	338	169
60°	388	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°	702.3	30.3
10°-20°	1142.0	49.2
20°-30°	424.5	18.3
30°-40°	42.1	1.8
40°-50°	7.0	0.3
50°-60°	1.9	0.1
60°-70°	1.0	0.0
70°-80°	0.2	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°	2268.7	97.7
0°-40°	2310.8	99.6
0°-60°	2319.8	99.9
0°-90°	2321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8951	8951	8951	8951	8951	
5°	7882	7961	7909	8002	7842	698
15°	4182	4229	4194	4263	4197	1131
25°	600	881	908	848	675	375
35°	40	50	84	52	43	32
45°	7	8	10	8	6	6
55°	3	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°	8951.2	8951.2	8951.2	8951.2	8951.2
2.5°	8447.3	8492.3	8464.3	8539.3	8358.3
5°	7882.3	7961.3	7909.3	8002.3	7842.3
7.5°	7106.4	7188.4	7135.4	7225.4	7082.4
10°	6124.5	6185.5	6131.5	6218.5	6105.5
12.5°	5142.6	5203.6	5163.6	5243.5	5153.6
15°	4181.6	4228.6	4193.6	4262.6	4196.6
17.5°	3205.7	3250.7	3218.7	3274.7	3224.7
20°	2307.8	2346.8	2322.8	2369.8	2330.8
22.5°	1432.9	1536.9	1553.9	1557.9	1444.9
25°	599.9	880.9	907.9	847.9	674.9
27.5°	247.0	324.0	432.0	341.0	260.0
30°	142.0	165.0	194.0	170.0	146.0
32.5°	71.0	92.0	127.0	97.0	75.0
35°	40.0	50.0	84.0	52.0	43.0
37.5°	24.0	29.0	42.0	30.0	25.0
40°	15.0	18.0	26.0	19.0	15.0
42.5°	10.0	12.0	16.0	12.0	10.0
45°	7.0	8.0	10.0	8.0	6.0
47.5°	5.0	5.0	6.0	5.0	4.0
50°	4.0	4.0	4.0	3.0	2.0
52.5°	3.0	3.0	3.0	2.0	2.0
55°	3.0	2.0	2.0	2.0	1.0
57.5°	2.0	2.0	2.0	1.0	1.0
60°	2.0	2.0	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°	0.0	0.0	0.0	0.0	0.0
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)