

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: P182496

Luminaire Tested: **LDSQA4A13835D010TE LAR35FL 4LSQA1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P182496
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: LDSQA4A13835D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1887.9 lumens
Efficiency: N/A
Efficacy: 84.8 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

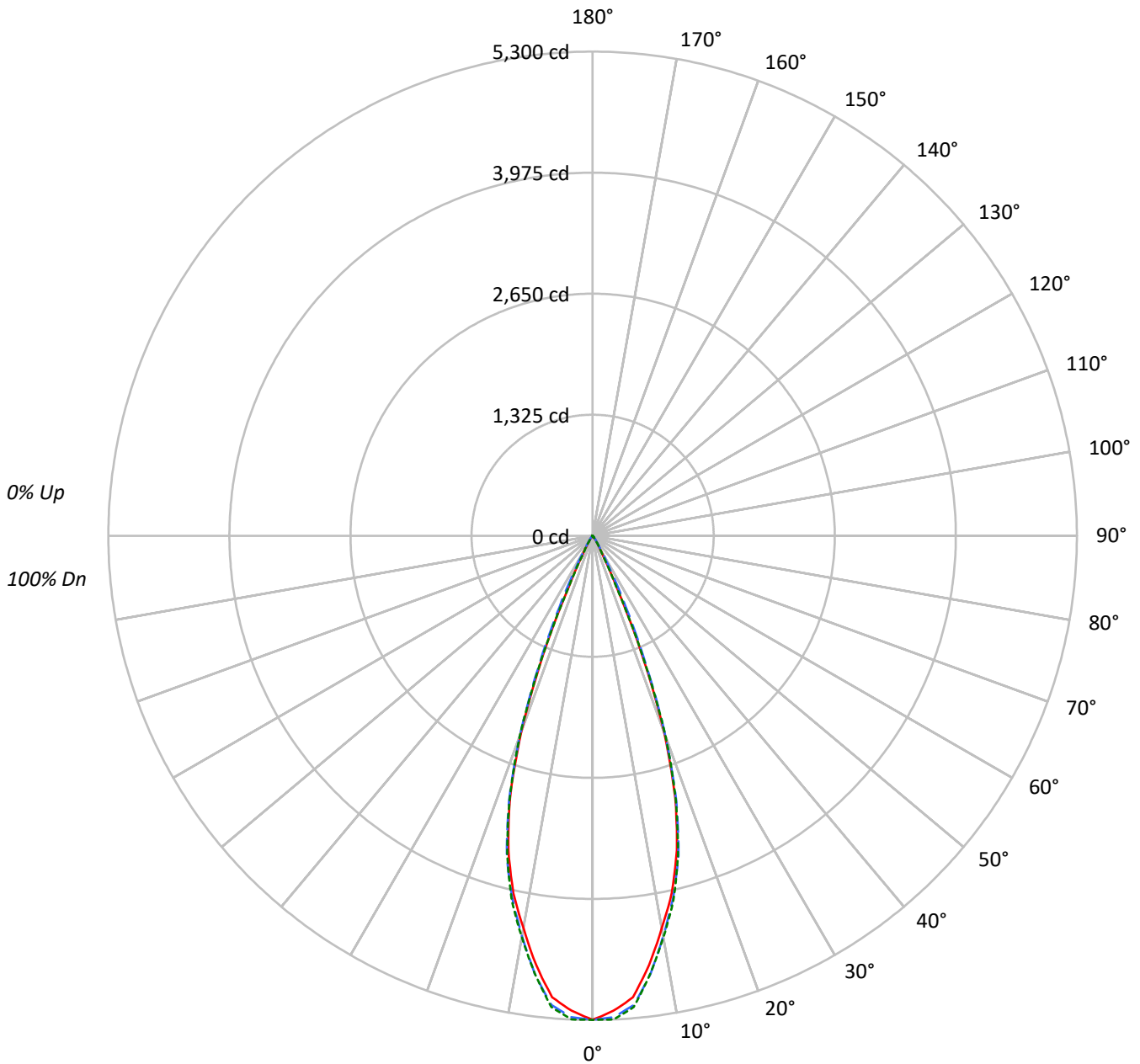
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	513265	513265	513265
5°	493210	501485	503518
10°	428883	437648	438907
15°	357253	363933	362318
20°	234752	240041	240371
25°	65118	91541	64091
30°	15627	19844	15896
35°	4175	7214	4080
40°	1518	2744	1416
45°	767	986	658
50°	482	482	362
55°	270	270	135
60°	310	155	155
65°	183	183	183
70°	227	227	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.6	24.7
10°-20°	965.4	51.1
20°-30°	412.3	21.8
30°-40°	36.4	1.9
40°-50°	5.4	0.3
50°-60°	1.5	0.1
60°-70°	0.8	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°	1843.3	97.6
0°-40°	1879.7	99.6
0°-60°	1886.7	99.9
0°-90°	1887.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1887.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5298	5298	5298	5298	5298	
5°	5072	5114	5157	5149	5178	460
15°	3562	3597	3629	3602	3613	955
25°	609	830	856	820	600	374
35°	35	44	61	43	34	30
45°	6	6	7	6	5	5
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°	5298.2	5298.2	5298.2	5298.2	5298.2
2.5°	5205.1	5242.0	5274.9	5272.5	5299.8
5°	5071.8	5113.6	5156.9	5148.9	5177.8
7.5°	4739.5	4782.1	4838.3	4816.6	4835.9
10°	4359.9	4404.8	4449.0	4435.3	4461.8
12.5°	4004.3	4030.0	4062.1	4059.7	4087.8
15°	3562.1	3596.6	3628.7	3602.2	3612.6
17.5°	3008.3	3021.9	3046.0	3019.5	3026.7
20°	2277.1	2314.8	2328.4	2297.9	2331.6
22.5°	1424.7	1515.4	1522.6	1506.5	1456.0
25°	609.2	829.9	856.4	819.5	599.6
27.5°	246.4	314.6	407.7	308.2	240.0
30°	139.7	151.7	177.4	149.3	142.1
32.5°	66.6	85.1	101.9	82.7	67.4
35°	35.3	44.1	61.0	43.3	34.5
37.5°	20.1	25.7	36.9	24.1	20.1
40°	12.0	15.2	21.7	14.4	11.2
42.5°	8.0	9.6	12.0	8.8	7.2
45°	5.6	5.6	7.2	5.6	4.8
47.5°	4.0	4.0	4.8	3.2	3.2
50°	3.2	3.2	3.2	2.4	2.4
52.5°	2.4	2.4	2.4	1.6	1.6
55°	1.6	1.6	1.6	1.6	0.8
57.5°	1.6	1.6	1.6	0.8	0.8
60°	1.6	1.6	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	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	0.0
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.8	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)