

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: P1219456

Luminaire Tested: **LDSQA4A10950D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219456
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: LDSQA4A10950D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

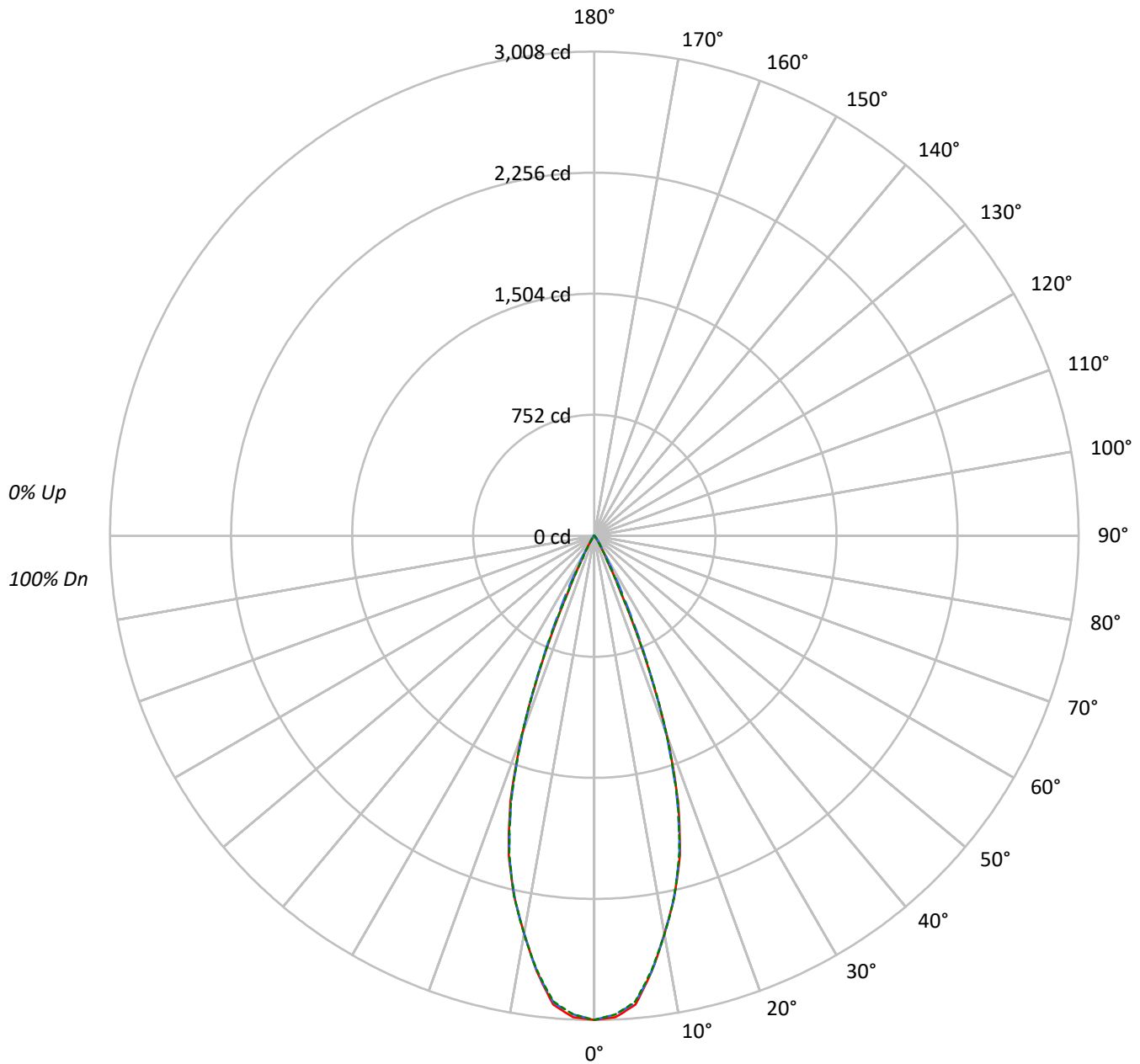
Lumens per Lamp: N/A
Luminaire Lumens: 1084.7 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.4
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	73	71	77	73	71	76	73	70	76	72	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	291363	291363	291363
5°	284307	283043	282518
10°	246889	246840	247135
15°	205941	204848	204738
20°	135082	134010	135185
25°	41313	52248	41142
30°	10336	12506	10112
35°	3347	5168	3288
40°	1568	2441	1378
45°	808	1028	617
50°	452	512	301
55°	253	338	169
60°	194	194	194
65°	115	115	115
70°	142	142	142
75°	0	187	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.2	24.4
10°-20°	547.5	50.5
20°-30°	239.1	22.0
30°-40°	26.1	2.4
40°-50°	5.4	0.5
50°-60°	1.5	0.1
60°-70°	0.6	0.1
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°	1050.8	96.9
0°-40°	1076.8	99.3
0°-60°	1083.7	99.9
0°-90°	1084.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1084.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3008	3008	3008	3008	3008	
5°	2924	2916	2911	2918	2905	265
15°	2053	2044	2042	2046	2041	549
25°	386	476	489	481	385	224
35°	28	34	44	33	28	22
45°	6	6	8	6	4	5
55°	2	2	2	1	1	2
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
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°	3007.6	3007.6	3007.6	3007.6	3007.6
2.5°	2994.2	2983.2	2977.2	2990.2	2977.2
5°	2923.6	2915.6	2910.6	2918.1	2905.2
7.5°	2730.4	2722.4	2729.4	2729.4	2722.9
10°	2509.8	2505.4	2509.3	2519.8	2512.3
12.5°	2295.8	2292.3	2293.8	2304.7	2296.2
15°	2053.4	2044.4	2042.5	2045.5	2041.4
17.5°	1730.6	1717.1	1708.6	1715.6	1717.6
20°	1310.3	1310.3	1299.9	1305.8	1311.3
22.5°	837.9	857.3	859.2	858.3	854.9
25°	386.5	476.3	488.8	480.8	384.9
27.5°	156.4	193.2	240.4	199.2	151.0
30°	92.4	97.3	111.8	95.9	90.4
32.5°	48.7	58.7	68.5	58.1	47.2
35°	28.3	33.8	43.7	33.3	27.8
37.5°	18.4	21.3	29.3	21.3	17.4
40°	12.4	13.9	19.3	13.4	10.9
42.5°	8.4	9.5	12.4	8.4	7.0
45°	5.9	6.4	7.5	5.5	4.5
47.5°	4.0	4.5	5.0	3.4	3.0
50°	3.0	3.0	3.4	2.5	2.0
52.5°	2.0	2.5	2.5	1.5	1.5
55°	1.5	1.5	2.0	1.0	1.0
57.5°	1.5	1.5	1.5	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	0.5	1.0	1.0	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.5	0.5	0.0	0.0
77.5°	0.0	0.5	0.5	0.5	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°

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