

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: P1219554

Luminaire Tested: **LDSQA4A25950D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219554
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: LDSQA4A25950D010TE 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

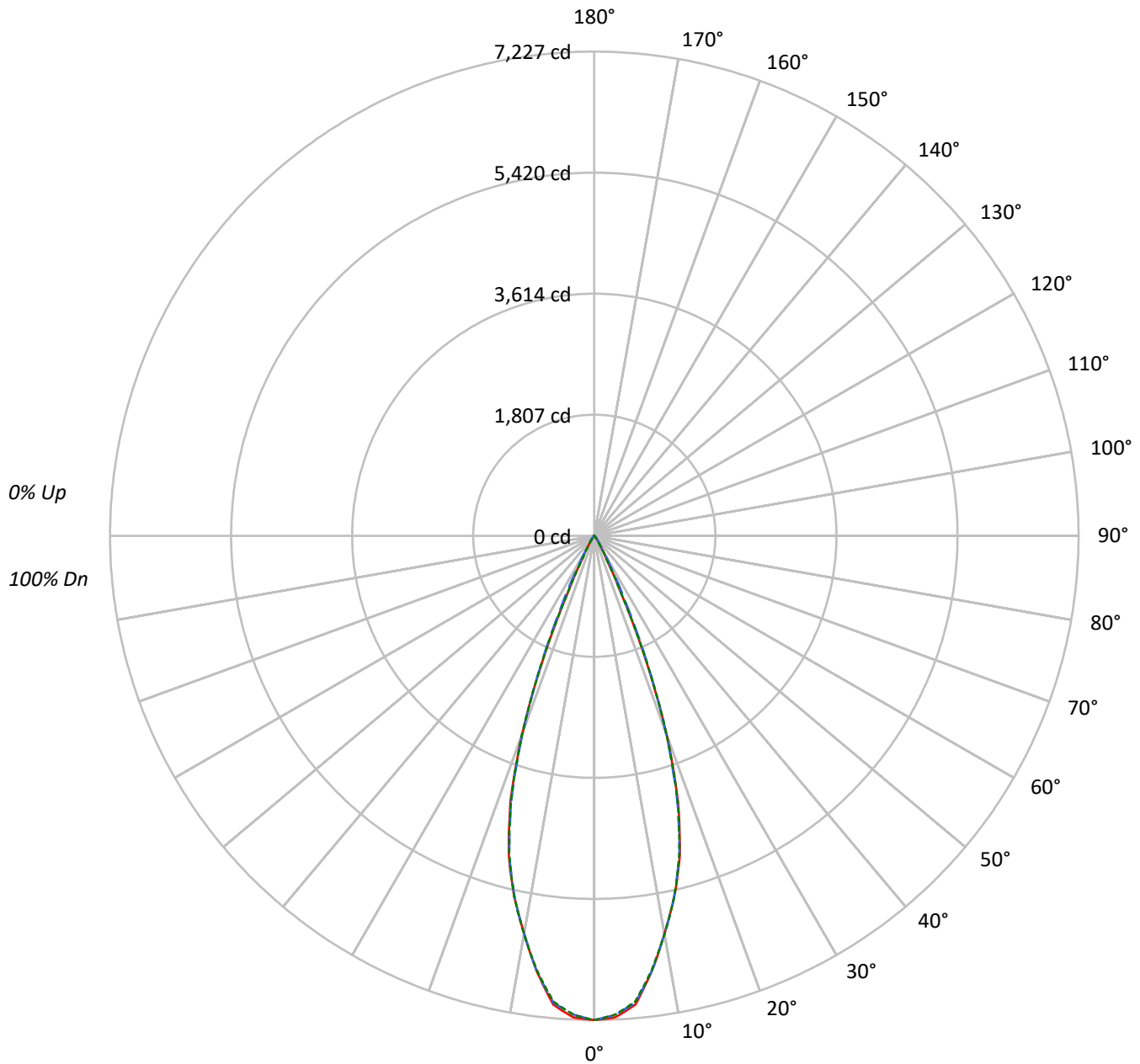
Lumens per Lamp: N/A
Luminaire Lumens: 2606.5 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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

Peachtree City, GA 30269



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	115	113	111	109	112	110	109	107		106	105	104			103	102	101			99
2	111	107	104	101	109	105	102	100		102	100	98			99	97	96			97
3	107	102	98	95	105	101	97	94		98	95	93			96	94	92			94
4	103	98	93	90	102	97	93	90		95	91	89			93	90	88			91
5	100	94	89	86	98	93	89	86		91	88	85			90	87	84			88
6	97	90	86	82	95	89	85	82		88	84	82			87	83	81			86
7	94	87	82	79	92	86	82	79		85	81	78			84	81	78			83
8	91	84	79	76	90	83	79	76		82	78	76			81	78	75			80
9	88	81	76	73	87	80	76	73		79	76	73			79	75	73			78
10	85	78	74	71	84	78	74	71		77	73	71			76	73	70			76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	700157	700157	700157
5°	683218	680193	678910
10°	593308	593180	593889
15°	494895	492257	492017
20°	324618	322031	324855
25°	99269	125543	98884
30°	24833	30046	24308
35°	8042	12418	7912
40°	3769	5893	3326
45°	1973	2452	1480
50°	1085	1251	723
55°	591	811	405
60°	465	465	465
65°	252	252	252
70°	312	312	312
75°	0	412	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.9	24.4
10°-20°	1315.6	50.5
20°-30°	574.5	22.0
30°-40°	62.7	2.4
40°-50°	13.0	0.5
50°-60°	3.6	0.1
60°-70°	1.4	0.1
70°-80°	0.8	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°	2525.1	96.9
0°-40°	2587.8	99.3
0°-60°	2604.3	99.9
0°-90°	2606.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2606.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7227	7227	7227	7227	7227	
5°	7026	7007	6995	7012	6981	636
15°	4934	4913	4908	4915	4906	1320
25°	929	1145	1174	1155	925	537
35°	68	81	105	80	67	54
45°	14	16	18	13	11	12
55°	4	4	5	2	2	4
65°	1	1	1	1	1	1
75°	0	1	1	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°	7227.4	7227.4	7227.4	7227.4	7227.4
2.5°	7195.0	7168.9	7154.6	7185.6	7154.6
5°	7025.7	7006.6	6994.6	7012.5	6981.4
7.5°	6561.4	6542.2	6559.0	6559.0	6543.5
10°	6031.4	6020.6	6030.1	6055.2	6037.3
12.5°	5516.9	5508.6	5512.2	5538.4	5518.0
15°	4934.5	4912.9	4908.2	4915.4	4905.8
17.5°	4158.5	4126.4	4106.1	4122.8	4127.6
20°	3148.8	3148.8	3123.7	3138.1	3151.1
22.5°	2013.6	2060.1	2065.0	2062.5	2054.2
25°	928.7	1144.6	1174.5	1155.4	925.1
27.5°	376.1	464.3	577.7	478.6	362.9
30°	222.0	234.0	268.6	230.4	217.3
32.5°	117.0	140.8	164.7	139.7	113.5
35°	68.0	81.2	105.0	80.0	66.9
37.5°	44.2	51.3	70.4	51.3	41.7
40°	29.8	33.5	46.6	32.2	26.3
42.5°	20.3	22.7	29.8	20.3	16.7
45°	14.4	15.5	17.9	13.2	10.8
47.5°	9.6	10.8	12.0	8.3	7.2
50°	7.2	7.2	8.3	5.9	4.8
52.5°	4.8	5.9	5.9	3.5	3.5
55°	3.5	3.5	4.8	2.4	2.4
57.5°	3.5	3.5	3.5	2.4	2.4
60°	2.4	2.4	2.4	2.4	2.4
62.5°	1.1	2.4	2.4	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1
75°	0.0	1.1	1.1	0.0	0.0
77.5°	0.0	1.1	1.1	1.1	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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