

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: P1212271

Luminaire Tested: **LDSQA4A25935D010TE LAR35FL 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212271
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: LDSQA4A25935D010TE LAR35FL 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

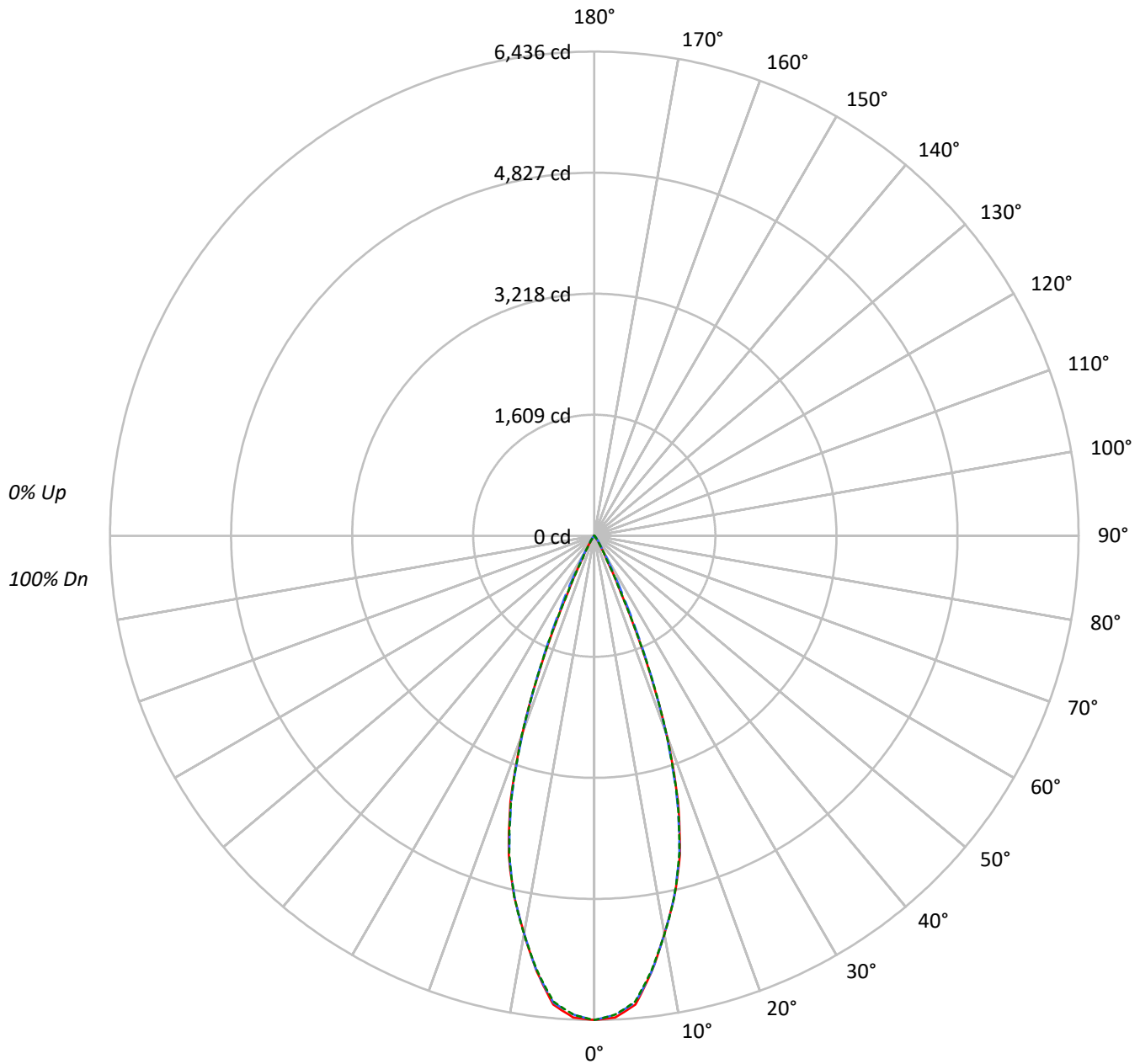
Lumens per Lamp: N/A
Luminaire Lumens: 2321.3 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

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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°	623510	623510	623510
5°	608426	605742	604604
10°	528364	528256	528886
15°	440717	438370	438159
20°	289082	286783	289299
25°	88398	111807	88056
30°	22115	26757	21634
35°	7167	11069	7048
40°	3351	5248	2959
45°	1740	2178	1315
50°	965	1115	648
55°	540	726	355
60°	407	407	407
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°	565.4	24.4
10°-20°	1171.6	50.5
20°-30°	511.6	22.0
30°-40°	55.8	2.4
40°-50°	11.5	0.5
50°-60°	3.2	0.1
60°-70°	1.3	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°	2248.7	96.9
0°-40°	2304.5	99.3
0°-60°	2319.2	99.9
0°-90°	2321.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2321.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6436	6436	6436	6436	6436	
5°	6257	6240	6229	6245	6217	566
15°	4394	4375	4371	4377	4369	1176
25°	827	1019	1046	1029	824	479
35°	61	72	94	71	60	48
45°	13	14	16	12	10	11
55°	3	3	4	2	2	3
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6436.2	6436.2	6436.2	6436.2	6436.2
2.5°	6407.6	6384.2	6371.4	6399.0	6371.4
5°	6256.6	6239.6	6229.0	6244.9	6217.3
7.5°	5843.1	5826.1	5841.0	5841.0	5827.1
10°	5371.2	5361.6	5370.1	5392.5	5376.5
12.5°	4913.0	4905.5	4908.8	4932.2	4914.1
15°	4394.3	4375.2	4370.9	4377.3	4368.8
17.5°	3703.4	3674.7	3656.6	3671.5	3675.7
20°	2804.1	2804.1	2781.8	2794.6	2806.2
22.5°	1793.2	1834.7	1839.0	1836.8	1829.3
25°	827.0	1019.4	1046.0	1029.0	823.8
27.5°	334.8	413.5	514.4	426.2	323.1
30°	197.7	208.4	239.2	205.1	193.4
32.5°	104.1	125.4	146.7	124.4	101.0
35°	60.6	72.3	93.6	71.2	59.6
37.5°	39.4	45.8	62.6	45.8	37.2
40°	26.5	29.7	41.5	28.7	23.4
42.5°	18.1	20.2	26.5	18.1	14.8
45°	12.7	13.8	15.9	11.7	9.6
47.5°	8.4	9.6	10.7	7.4	6.4
50°	6.4	6.4	7.4	5.3	4.3
52.5°	4.3	5.3	5.3	3.2	3.2
55°	3.2	3.2	4.3	2.1	2.1
57.5°	3.2	3.2	3.2	2.1	2.1
60°	2.1	2.1	2.1	2.1	2.1
62.5°	1.1	2.1	2.1	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

Classified

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)