

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: P1212235

Luminaire Tested: **LDSQA4A25927D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1212235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26796)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A25927D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

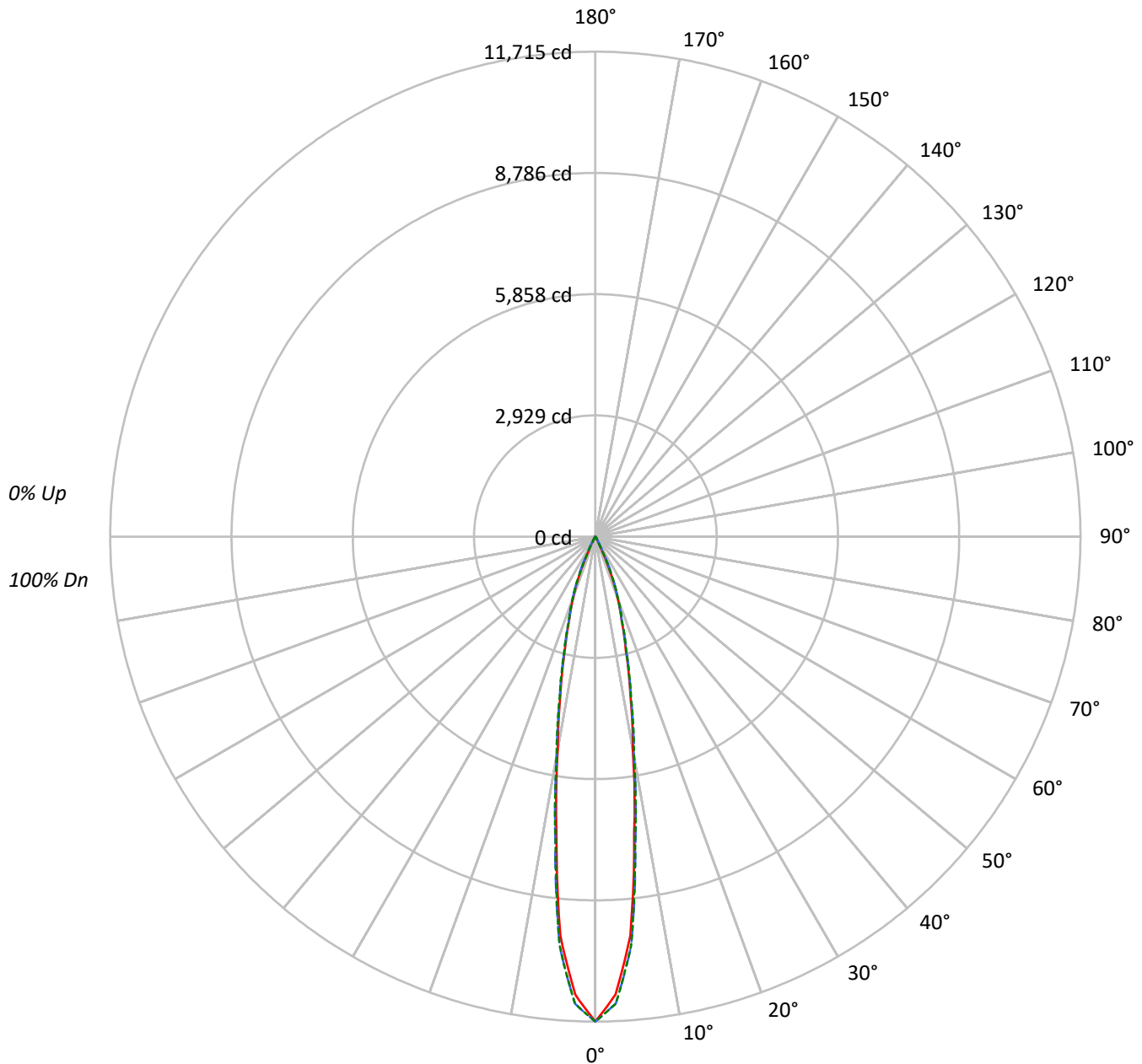
Lumens per Lamp: N/A
Luminaire Lumens: 1955.1 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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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	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97		
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94		
3	108	104	100	98	107	103	99	97	100	98	95	98	96	94	96	94	93	91		
4	105	100	96	94	104	99	96	93	97	94	92	95	93	91	94	92	90	89		
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86		
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84		
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82		
8	95	88	85	82	94	88	84	82	87	84	81	86	83	81	85	83	81	80		
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78		
10	90	84	80	78	89	84	80	78	83	80	77	82	79	77	82	79	77	76		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1134905	1134905	1134905
5°	941375	965745	964374
10°	512960	528099	530774
15°	285203	293377	294901
20°	160804	165361	167433
25°	48400	71317	48197
30°	9117	13054	9117
35°	3926	6067	4045
40°	1910	3187	1910
45°	1233	1658	959
50°	754	904	467
55°	524	524	338
60°	388	213	213
65°	252	252	252
70°	0	312	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.0	39.9
10°-20°	831.4	42.5
20°-30°	303.2	15.5
30°-40°	28.9	1.5
40°-50°	8.0	0.4
50°-60°	2.4	0.1
60°-70°	1.1	0.1
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°	1914.6	97.9
0°-40°	1943.5	99.4
0°-60°	1953.9	99.9
0°-90°	1955.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11715	11715	11715	11715	11715	
5°	9680	9925	9931	9827	9917	765
15°	2844	2911	2925	2919	2940	814
25°	453	655	667	661	451	261
35°	33	40	51	40	34	24
45°	9	9	12	9	7	7
55°	3	3	3	2	2	3
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°	11715.1	11715.1	11715.1	11715.1	11715.1
2.5°	11076.1	11309.6	11292.6	11240.2	11292.6
5°	9680.4	9925.0	9931.0	9827.3	9916.9
7.5°	7195.9	7385.1	7418.3	7316.7	7384.1
10°	5214.6	5383.6	5368.5	5348.4	5395.7
12.5°	3895.2	3980.8	3971.8	3993.9	3996.9
15°	2843.7	2911.1	2925.2	2919.2	2940.4
17.5°	2094.1	2130.3	2123.3	2134.3	2142.4
20°	1559.8	1617.1	1604.0	1614.0	1624.1
22.5°	1034.5	1140.1	1127.1	1143.1	1134.1
25°	452.8	655.1	667.2	661.1	450.9
27.5°	138.9	234.5	300.9	229.4	138.9
30°	81.5	97.6	116.7	95.6	81.5
32.5°	51.3	61.3	73.4	60.4	50.3
35°	33.2	40.3	51.3	40.3	34.2
37.5°	22.2	27.2	36.3	27.2	23.1
40°	15.1	18.1	25.2	19.1	15.1
42.5°	11.0	13.2	17.1	13.2	10.1
45°	9.0	9.0	12.1	9.0	7.0
47.5°	7.0	7.0	8.1	6.0	5.0
50°	5.0	5.0	6.0	4.0	3.1
52.5°	3.1	4.0	4.0	3.1	2.0
55°	3.1	3.1	3.1	2.0	2.0
57.5°	2.0	2.0	2.0	1.1	1.1
60°	2.0	2.0	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	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°	0.0	1.1	1.1	0.0	0.0
72.5°	0.0	1.1	0.0	0.0	0.0
75°	0.0	1.1	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

Classified

Scaled Data Report

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— 0°-180° - - 45°-225° - - - 90°-270°

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