

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: P1219460

Luminaire Tested: **LDSQA4A15927D010TE LAR15SP 4LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26794)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15927D010TE LAR15SP 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

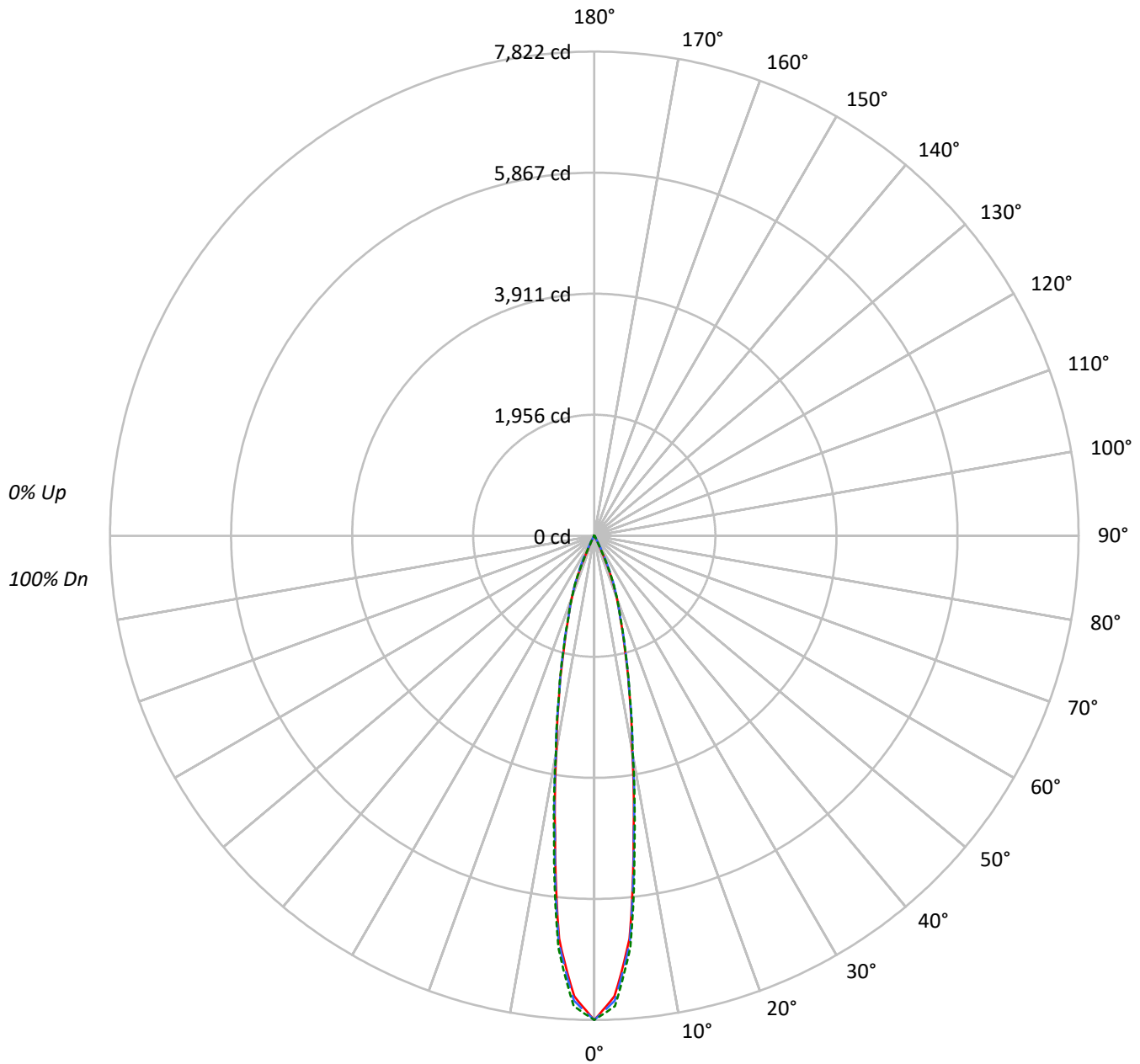
Lumens per Lamp: N/A
Luminaire Lumens: 1284.2 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	110	113	111	110	108	107	106	105	104	103	102	100	99	99	97		
2	112	108	105	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94		
3	108	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92		
4	105	100	97	94	104	99	96	93	97	95	92	96	93	91	94	92	90	89		
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87		
6	100	94	90	87	99	93	90	87	92	89	87	91	88	86	90	87	86	85		
7	97	91	88	85	96	91	87	85	90	87	84	89	86	84	88	85	83	82		
8	95	89	85	82	94	88	85	82	88	84	82	87	84	82	86	83	81	80		
9	93	87	83	80	92	86	83	80	85	82	80	85	82	80	84	81	79	79		
10	91	84	81	78	90	84	81	78	83	80	78	83	80	78	82	80	78	77		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	757779	757779	757779
5°	635149	640527	649833
10°	345544	350679	352017
15°	191088	194157	194899
20°	108206	108526	109155
25°	29523	46251	28999
30°	4743	7204	4598
35°	1597	2685	1526
40°	696	1088	696
45°	425	507	343
50°	286	286	181
55°	203	203	101
60°	116	116	116
65°	138	138	138
70°	170	170	170
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.4	40.6
10°-20°	551.4	42.9
20°-30°	194.0	15.1
30°-40°	13.0	1.0
40°-50°	2.7	0.2
50°-60°	0.9	0.1
60°-70°	0.6	0.0
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°	1266.7	98.6
0°-40°	1279.8	99.7
0°-60°	1283.4	99.9
0°-90°	1284.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1284.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7822	7822	7822	7822	7822	
5°	6531	6630	6587	6599	6682	515
15°	1905	1937	1936	1932	1943	546
25°	276	419	433	412	271	171
35°	14	16	23	16	13	10
45°	3	3	4	3	2	3
55°	1	1	1	1	1	1
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7822.2	7822.2	7822.2	7822.2	7822.2
2.5°	7446.6	7544.2	7519.6	7503.6	7606.2
5°	6531.4	6629.6	6586.7	6598.9	6682.4
7.5°	4855.8	4938.6	4894.4	4912.8	4976.6
10°	3512.7	3595.0	3564.9	3574.8	3578.5
12.5°	2619.0	2655.3	2631.3	2638.1	2650.3
15°	1905.3	1937.1	1935.9	1931.6	1943.3
17.5°	1398.2	1413.5	1398.2	1397.6	1405.6
20°	1049.6	1071.1	1052.7	1055.1	1058.8
22.5°	705.3	748.2	740.8	731.6	721.8
25°	276.2	419.3	432.7	412.4	271.3
27.5°	79.2	130.8	186.0	128.3	76.7
30°	42.4	50.3	64.4	49.1	41.1
32.5°	22.7	28.8	36.8	28.2	22.1
35°	13.5	16.5	22.7	16.5	12.9
37.5°	8.6	10.4	14.2	10.4	8.6
40°	5.5	6.7	8.6	6.7	5.5
42.5°	4.3	5.0	5.5	4.3	3.7
45°	3.1	3.1	3.7	3.1	2.5
47.5°	2.5	2.5	2.5	1.9	1.9
50°	1.9	1.9	1.9	1.2	1.2
52.5°	1.2	1.2	1.2	1.2	1.2
55°	1.2	1.2	1.2	0.6	0.6
57.5°	1.2	0.6	0.6	0.6	0.6
60°	0.6	0.6	0.6	0.6	0.6
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.0
70°	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.0	0.0
75°	0.0	0.6	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°

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