

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: P1212263

Luminaire Tested: **LDSQA4A25935D010TE LAR15SP 4LSQAL1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212263
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: LDSQA4A25935D010TE LAR15SP 4LSQAL1H
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 15° SPOT
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

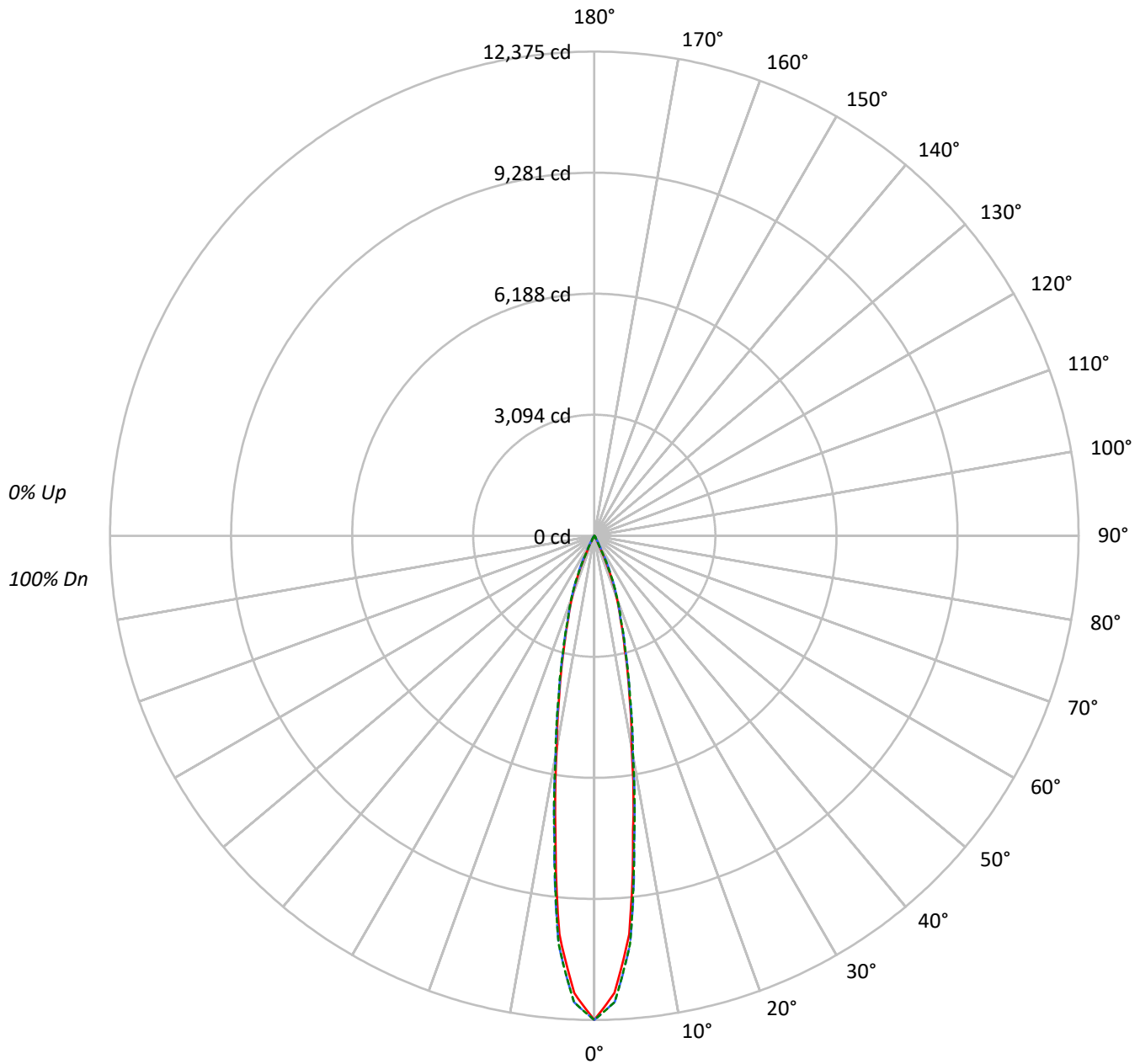
Lumens per Lamp: N/A
Luminaire Lumens: 2065.2 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.32 / 0.36
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	1198833	1198833	1198833
5°	994413	1020144	1018695
10°	541851	557846	560669
15°	301270	309905	311510
20°	169855	174680	176866
25°	51126	75336	50912
30°	9631	13793	9631
35°	4151	6410	4269
40°	2011	3351	2011
45°	1315	1740	1014
50°	799	965	482
55°	540	540	355
60°	407	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°	823.9	39.9
10°-20°	878.2	42.5
20°-30°	320.3	15.5
30°-40°	30.5	1.5
40°-50°	8.4	0.4
50°-60°	2.5	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°	2022.4	97.9
0°-40°	2053.0	99.4
0°-60°	2063.9	99.9
0°-90°	2065.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12375	12375	12375	12375	12375	
5°	10226	10484	10490	10381	10476	808
15°	3004	3075	3090	3084	3106	859
25°	478	692	705	698	476	276
35°	35	42	54	42	36	25
45°	10	10	13	10	7	8
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°	12375.0	12375.0	12375.0	12375.0	12375.0
2.5°	11700.1	11946.7	11928.6	11873.4	11928.6
5°	10225.8	10484.0	10490.4	10380.9	10475.5
7.5°	7601.2	7801.2	7836.2	7728.9	7800.1
10°	5508.3	5686.9	5670.9	5649.7	5699.6
12.5°	4114.8	4205.1	4195.5	4218.9	4222.1
15°	3003.9	3075.2	3090.0	3083.7	3106.0
17.5°	2212.0	2250.3	2242.8	2254.5	2263.0
20°	1647.6	1708.2	1694.4	1705.0	1715.6
22.5°	1092.7	1204.3	1190.5	1207.5	1198.0
25°	478.3	692.0	704.8	698.4	476.3
27.5°	146.7	247.6	317.8	242.4	146.7
30°	86.1	103.1	123.3	101.0	86.1
32.5°	54.2	64.9	77.6	63.8	53.1
35°	35.1	42.5	54.2	42.5	36.1
37.5°	23.4	28.7	38.3	28.7	24.5
40°	15.9	19.1	26.5	20.2	15.9
42.5°	11.7	13.8	18.1	13.8	10.7
45°	9.6	9.6	12.7	9.6	7.4
47.5°	7.4	7.4	8.4	6.4	5.3
50°	5.3	5.3	6.4	4.3	3.2
52.5°	3.2	4.3	4.3	3.2	2.1
55°	3.2	3.2	3.2	2.1	2.1
57.5°	2.1	2.1	2.1	1.1	1.1
60°	2.1	2.1	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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