

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: P1219506

Luminaire Tested: **LDSQA4A15940D010TE LAR25NF 4LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1219506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26785)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A15940D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

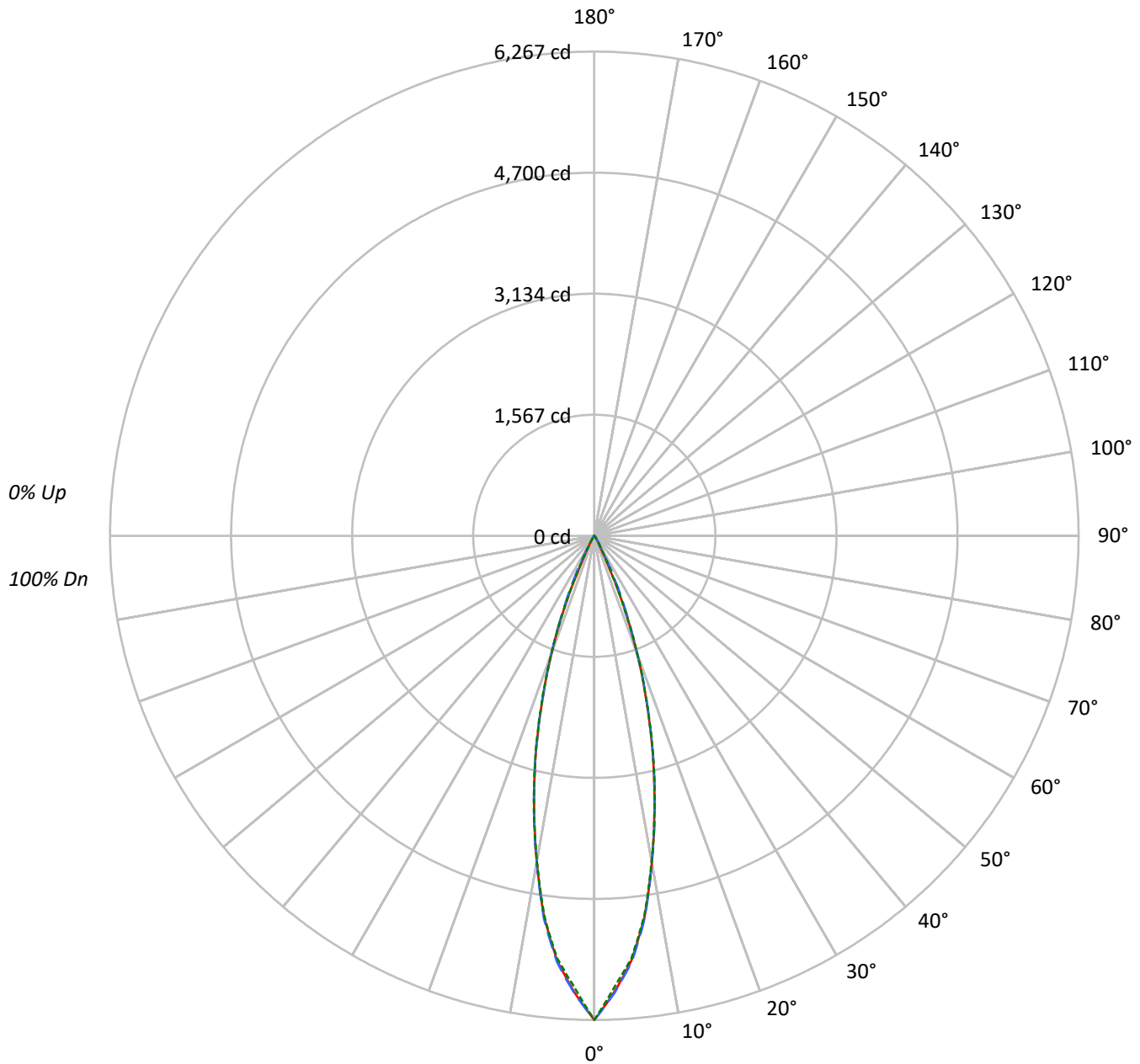
Lumens per Lamp: N/A
Luminaire Lumens: 1625.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

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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	113	111	109	107	107	105	104	103	102	101	100	99	98	97		
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93		
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90		
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87		
5	101	95	91	88	100	94	90	88	93	89	87	91	88	86	90	87	85	84		
6	98	92	88	84	97	91	87	84	90	86	84	88	85	83	87	85	83	82		
7	95	89	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79		
8	92	86	82	79	91	85	81	79	84	81	78	84	80	78	83	80	78	77		
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75	74		
10	87	81	77	74	87	80	76	74	80	76	74	79	76	73	78	75	73	72		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	607138	607138	607138
5°	536688	538516	533955
10°	421820	422292	420502
15°	293627	294470	294690
20°	166577	167660	168237
25°	44905	67950	50506
30°	11119	15191	11432
35°	3311	6954	3560
40°	1328	2302	1328
45°	685	959	575
50°	422	422	211
55°	355	236	118
60°	271	136	136
65°	160	160	160
70°	198	198	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.7	30.3
10°-20°	799.5	49.2
20°-30°	297.2	18.3
30°-40°	29.5	1.8
40°-50°	4.9	0.3
50°-60°	1.4	0.1
60°-70°	0.7	0.0
70°-80°	0.1	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°	1588.4	97.7
0°-40°	1617.9	99.6
0°-60°	1624.2	99.9
0°-90°	1625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6267	6267	6267	6267	6267	
5°	5519	5574	5538	5603	5491	489
15°	2928	2961	2936	2984	2938	792
25°	420	617	636	594	472	263
35°	28	35	59	36	30	22
45°	5	6	7	6	4	4
55°	2	1	1	1	1	2
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°	6267.2	6267.2	6267.2	6267.2	6267.2
2.5°	5914.4	5945.8	5926.2	5978.8	5852.1
5°	5518.9	5574.1	5537.7	5602.8	5490.8
7.5°	4975.5	5033.0	4995.8	5058.8	4958.7
10°	4288.1	4330.8	4292.9	4353.8	4274.7
12.5°	3600.5	3643.3	3615.3	3671.3	3608.3
15°	2927.7	2960.7	2936.1	2984.5	2938.3
17.5°	2244.5	2276.0	2253.6	2292.8	2257.8
20°	1615.8	1643.1	1626.3	1659.2	1631.9
22.5°	1003.3	1076.0	1087.9	1090.8	1011.6
25°	420.1	616.8	635.7	593.7	472.5
27.5°	173.0	226.8	302.4	238.7	182.1
30°	99.4	115.5	135.8	119.0	102.2
32.5°	49.7	64.4	88.9	67.9	52.5
35°	28.0	35.0	58.8	36.4	30.1
37.5°	16.8	20.3	29.4	21.0	17.5
40°	10.5	12.6	18.2	13.3	10.5
42.5°	7.0	8.4	11.2	8.4	7.0
45°	5.0	5.6	7.0	5.6	4.2
47.5°	3.5	3.5	4.2	3.5	2.8
50°	2.8	2.8	2.8	2.1	1.4
52.5°	2.1	2.1	2.1	1.4	1.4
55°	2.1	1.4	1.4	1.4	0.7
57.5°	1.4	1.4	1.4	0.7	0.7
60°	1.4	1.4	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.7	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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