

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: P1212307

Luminaire Tested: **LDSQA4A30930D010TE LAR25NF 4LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212307
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: LDSQA4A30930D010TE LAR25NF 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 25° NARROW FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

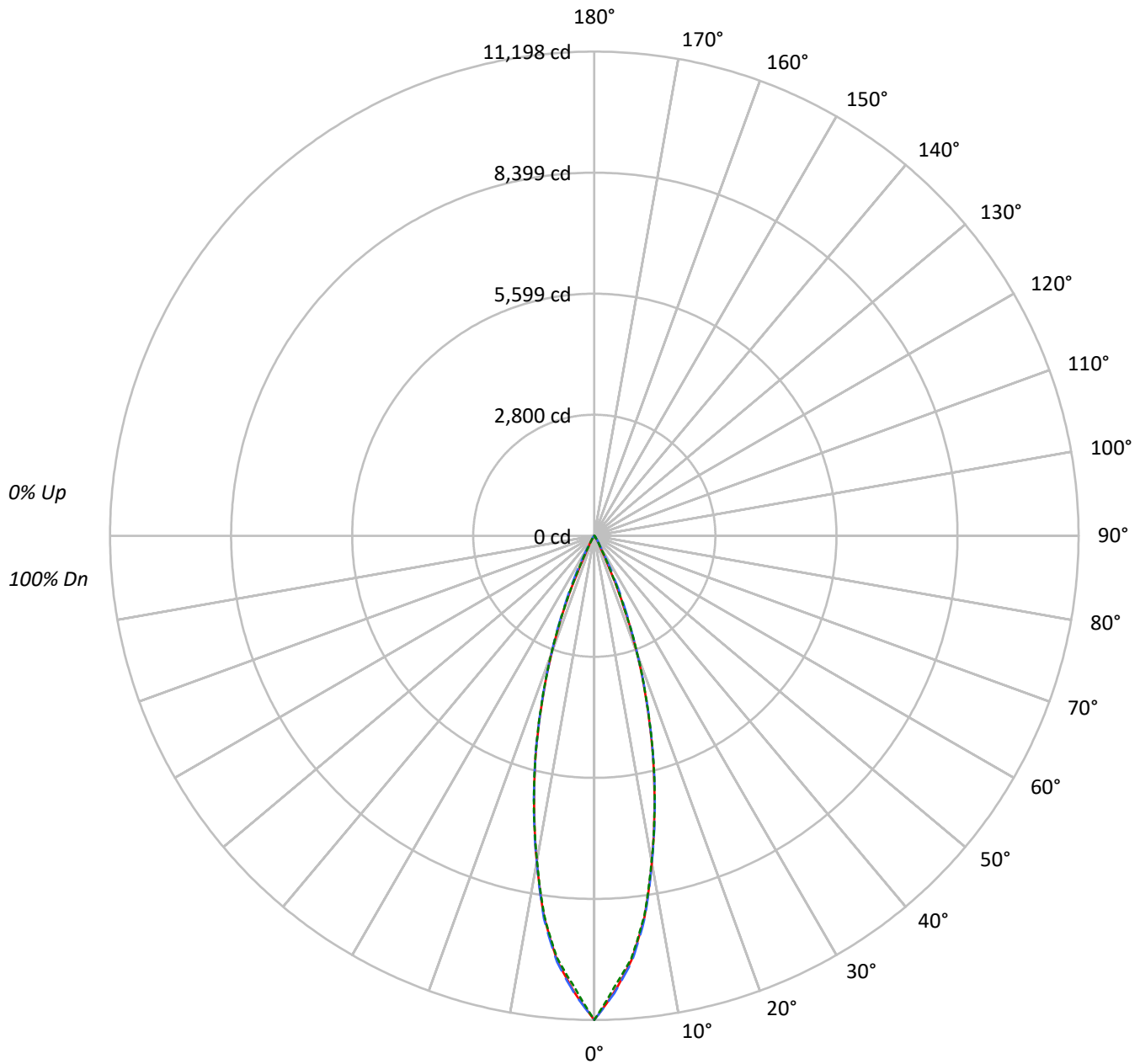
Lumens per Lamp: N/A
Luminaire Lumens: 2903.4 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.8
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°	1084792	1084792	1084792
5°	958899	962186	954046
10°	753671	754527	751339
15°	524642	526146	526537
20°	297629	299567	300587
25°	80221	121406	90247
30°	19867	27149	20426
35°	5925	12429	6363
40°	2377	4110	2377
45°	1192	1713	1028
50°	754	754	377
55°	625	422	203
60°	484	233	233
65°	275	275	275
70°	340	340	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	878.5	30.3
10°-20°	1428.6	49.2
20°-30°	531.0	18.3
30°-40°	52.7	1.8
40°-50°	8.8	0.3
50°-60°	2.4	0.1
60°-70°	1.2	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°	2838.1	97.7
0°-40°	2890.8	99.6
0°-60°	2902.0	100.0
0°-90°	2903.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2903.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11198	11198	11198	11198	11198	
5°	9861	9960	9894	10011	9811	873
15°	5231	5290	5246	5332	5250	1415
25°	750	1102	1136	1061	844	469
35°	50	62	105	65	54	40
45°	9	10	12	10	8	7
55°	4	2	2	2	1	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°	11197.8	11197.8	11197.8	11197.8	11197.8
2.5°	10567.4	10623.7	10588.7	10682.5	10456.1
5°	9860.6	9959.5	9894.4	10010.8	9810.7
7.5°	8889.9	8992.5	8926.2	9038.9	8860.0
10°	7661.6	7737.9	7670.3	7779.1	7637.9
12.5°	6433.2	6509.6	6459.5	6559.5	6447.0
15°	5231.1	5290.0	5246.1	5332.5	5250.0
17.5°	4010.3	4066.6	4026.5	4096.6	4034.1
20°	2887.0	2935.9	2905.8	2964.6	2915.7
22.5°	1792.5	1922.6	1943.8	1948.9	1807.5
25°	750.5	1102.0	1135.8	1060.7	844.3
27.5°	308.9	405.3	540.4	426.6	325.2
30°	177.6	206.3	242.7	212.7	182.6
32.5°	88.8	115.0	158.9	121.4	93.8
35°	50.1	62.5	105.1	65.1	53.8
37.5°	30.1	36.3	52.5	37.5	31.3
40°	18.8	22.5	32.5	23.7	18.8
42.5°	12.5	15.0	20.0	15.0	12.5
45°	8.7	10.1	12.5	10.1	7.5
47.5°	6.2	6.2	7.5	6.2	5.0
50°	5.0	5.0	5.0	3.7	2.5
52.5°	3.7	3.7	3.7	2.5	2.5
55°	3.7	2.5	2.5	2.5	1.2
57.5°	2.5	2.5	2.5	1.2	1.2
60°	2.5	2.5	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	1.2	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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(END OF REPORT)