

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: P1212391

Luminaire Tested: **LDSQA4A35940D010TE LAR25NF 4LSQA1H**

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: P1212391
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: LDSQA4A35940D010TE 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

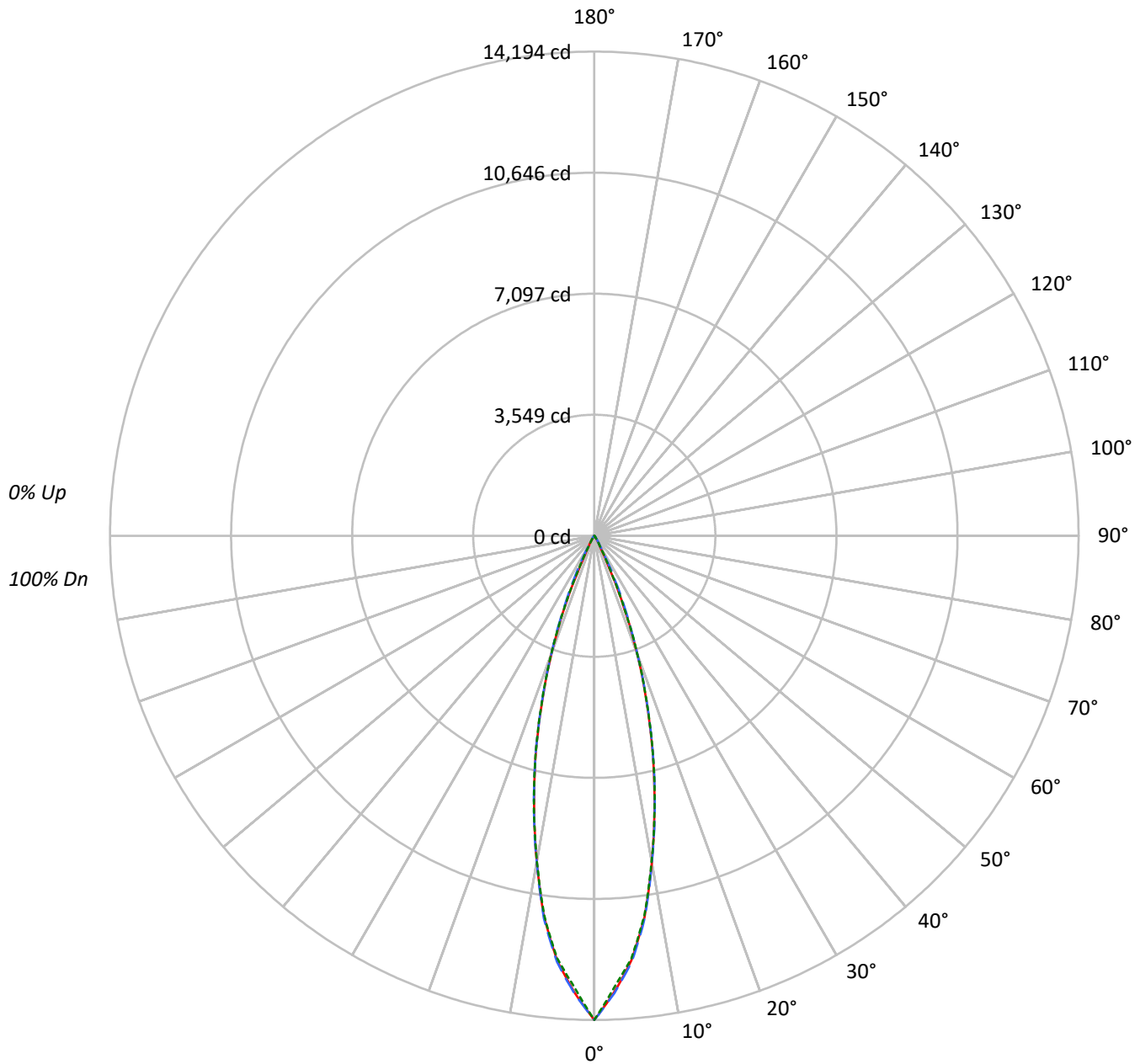
Lumens per Lamp: N/A
Luminaire Lumens: 3680.4 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.49
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47.7
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	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°	1375069	1375069	1375069
5°	1215481	1219653	1209325
10°	955349	956431	952388
15°	665042	666947	667429
20°	377268	379721	381031
25°	101685	153901	114405
30°	25191	34409	25907
35°	7498	15753	8066
40°	3010	5210	3010
45°	1507	2178	1302
50°	949	949	467
55°	794	524	270
60°	601	310	310
65°	367	367	367
70°	453	453	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1113.6	30.3
10°-20°	1810.9	49.2
20°-30°	673.1	18.3
30°-40°	66.8	1.8
40°-50°	11.2	0.3
50°-60°	3.0	0.1
60°-70°	1.6	0.0
70°-80°	0.3	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°	3597.5	97.7
0°-40°	3664.3	99.6
0°-60°	3678.5	99.9
0°-90°	3680.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3680.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14194	14194	14194	14194	14194	
5°	12499	12624	12542	12689	12436	1107
15°	6631	6706	6650	6759	6655	1794
25°	951	1397	1440	1345	1070	595
35°	63	79	133	82	68	51
45°	11	13	16	13	10	9
55°	5	3	3	3	2	4
65°	2	2	2	2	2	2
75°	0	2	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°	14194.2	14194.2	14194.2	14194.2	14194.2
2.5°	13395.1	13466.4	13422.0	13540.9	13254.0
5°	12499.1	12624.5	12542.0	12689.4	12435.8
7.5°	11268.9	11398.8	11314.7	11457.4	11230.8
10°	9711.8	9808.5	9722.8	9860.8	9681.7
12.5°	8154.7	8251.4	8188.0	8314.8	8172.1
15°	6631.0	6705.5	6650.0	6759.4	6654.8
17.5°	5083.5	5154.8	5103.9	5192.8	5113.6
20°	3659.5	3721.4	3683.3	3757.9	3696.0
22.5°	2272.2	2437.1	2464.0	2470.3	2291.3
25°	951.3	1396.9	1439.8	1344.6	1070.3
27.5°	391.7	513.8	685.0	540.7	412.2
30°	225.2	261.6	307.6	269.5	231.6
32.5°	112.6	145.9	201.3	153.7	118.9
35°	63.4	79.2	133.2	82.4	68.2
37.5°	38.1	46.0	66.6	47.6	39.7
40°	23.8	28.5	41.2	30.1	23.8
42.5°	15.9	19.1	25.3	19.1	15.9
45°	11.0	12.8	15.9	12.8	9.5
47.5°	7.9	7.9	9.5	7.9	6.3
50°	6.3	6.3	6.3	4.7	3.1
52.5°	4.7	4.7	4.7	3.1	3.1
55°	4.7	3.1	3.1	3.1	1.6
57.5°	3.1	3.1	3.1	1.6	1.6
60°	3.1	3.1	1.6	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	1.6	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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