

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: P1212287

Luminaire Tested: **LDSQA4A30927D010TE LAR15SP 4LSQA1H-LSF-20**

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: P1212287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26829)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A30927D010TE LAR15SP 4LSQA1H-LSF-20
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 15° SPOT WITH SOLITE LENS
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

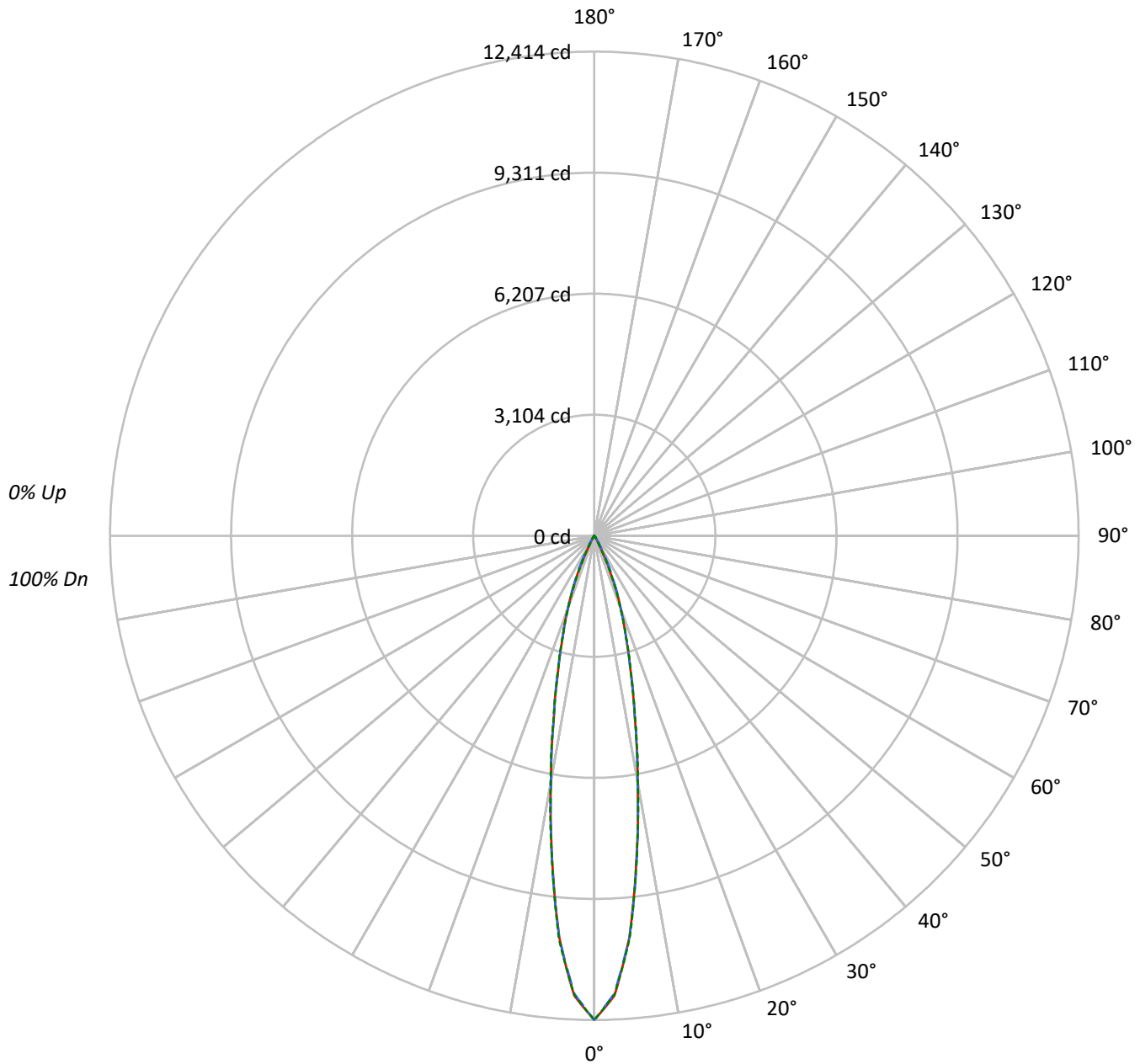
Lumens per Lamp: N/A
Luminaire Lumens: 2354.2 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.35 / 0.39
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	115	113	111	109	113	111	109	108		107	106	104			103	102	101			100
2	111	108	105	102	109	106	104	101		103	101	99			100	99	97			98
3	108	103	100	97	106	102	99	96		100	97	95			97	95	93			95
4	105	99	96	93	103	98	95	92		96	93	91			95	92	90			93
5	102	96	92	89	100	95	91	89		93	90	88			92	89	87			91
6	99	93	89	86	98	92	88	85		91	87	85			89	87	84			88
7	96	90	86	83	95	89	85	83		88	85	82			87	84	82			86
8	94	87	83	80	93	87	83	80		86	82	80			85	82	80			84
9	91	85	81	78	90	84	80	78		83	80	78			83	80	77			82
10	89	82	78	76	88	82	78	76		81	78	75			81	78	75			80

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1202621	1202621	1202621
5°	1004108	1004108	1008873
10°	629046	627629	633994
15°	358978	361014	361616
20°	203237	202618	201752
25°	76288	98649	77955
30°	15650	33033	15773
35°	6232	10750	6079
40°	3174	4692	3035
45°	2137	2466	1795
50°	1266	1266	904
55°	608	794	405
60°	465	465	233
65°	275	275	275
70°	340	340	340
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	857.8	36.4
10°-20°	1020.2	43.3
20°-30°	406.7	17.3
30°-40°	51.3	2.2
40°-50°	12.7	0.5
50°-60°	3.7	0.2
60°-70°	1.3	0.1
70°-80°	0.5	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°	2284.8	97.0
0°-40°	2336.1	99.2
0°-60°	2352.4	99.9
0°-90°	2354.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2354.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12414	12414	12414	12414	12414	
5°	10326	10420	10326	10335	10374	855
15°	3579	3601	3600	3600	3606	1017
25°	714	876	923	840	729	367
35°	53	63	91	61	51	38
45°	16	16	18	14	13	12
55°	4	4	5	4	2	4
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°	12414.1	12414.1	12414.1	12414.1	12414.1
2.5°	11804.3	11867.7	11745.8	11757.6	11773.2
5°	10325.5	10420.0	10325.5	10335.1	10374.5
7.5°	8308.7	8391.2	8337.4	8361.3	8318.3
10°	6394.7	6424.6	6380.3	6401.9	6445.0
12.5°	4808.3	4841.7	4809.5	4810.6	4829.8
15°	3579.3	3600.9	3599.6	3599.6	3605.6
17.5°	2673.1	2701.8	2670.8	2673.1	2680.2
20°	1971.4	1990.5	1965.4	1961.8	1957.0
22.5°	1344.9	1385.6	1401.1	1380.7	1316.2
25°	713.7	876.3	922.9	840.4	729.3
27.5°	286.9	436.4	539.1	426.8	312.0
30°	139.9	190.1	295.3	194.8	141.0
32.5°	82.5	102.8	161.4	101.6	81.2
35°	52.7	63.4	90.9	61.0	51.4
37.5°	34.7	41.8	56.2	40.7	33.4
40°	25.1	28.7	37.1	27.5	24.0
42.5°	19.1	20.3	25.1	20.3	18.0
45°	15.6	15.6	18.0	14.4	13.1
47.5°	12.0	12.0	12.0	10.7	8.4
50°	8.4	8.4	8.4	7.1	6.0
52.5°	6.0	6.0	6.0	4.7	3.6
55°	3.6	3.6	4.7	3.6	2.4
57.5°	3.6	2.4	3.6	2.4	2.4
60°	2.4	2.4	2.4	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	1.2
72.5°	1.2	1.2	1.2	1.2	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

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— 0°-180° - - 45°-225° - - - 90°-270°

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