

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: P1212227

Luminaire Tested: **LDSQA4A20940D010TE LAR35FL 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: P1212227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26795)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA4A20940D010TE LAR35FL 4LSQA1H
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

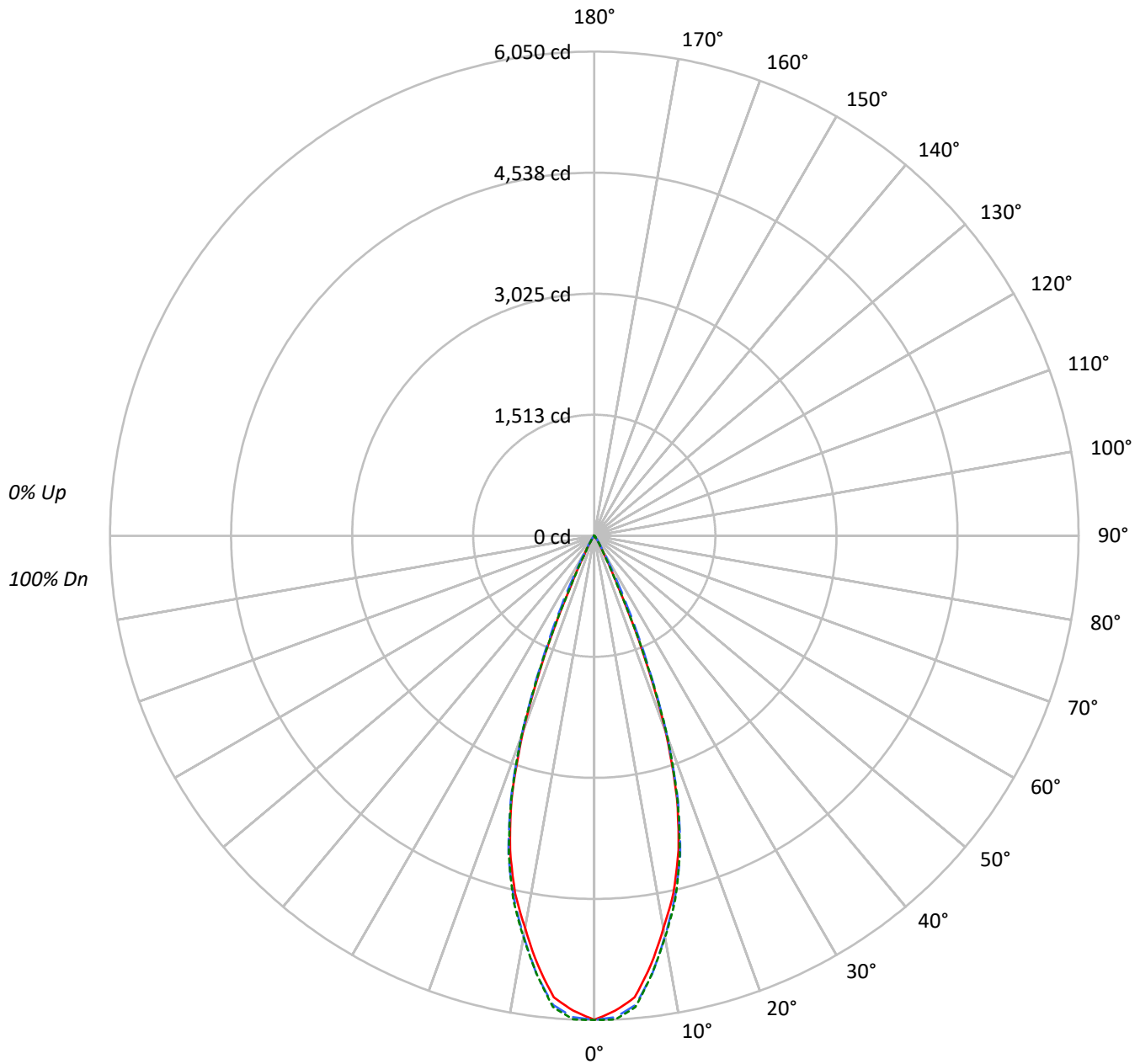
Lumens per Lamp: N/A
Luminaire Lumens: 2155.3 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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					0
RW	70	50	30	10	70	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
1	115	113	111	109	112	110	109	107		107	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	103	100		102	100	98		99	98	96		97	95	94
3	107	102	98	95	105	101	97	95		98	96	93		96	94	92		94	92	90
4	103	98	94	91	102	97	93	90		95	92	89		93	90	88		91	89	87
5	100	94	90	86	99	93	89	86		91	88	85		90	87	85		88	86	84
6	97	90	86	83	96	90	85	82		88	85	82		87	84	81		86	83	81
7	94	87	83	79	93	86	82	79		85	82	79		84	81	79		83	80	78
8	91	84	80	77	90	83	79	76		82	79	76		82	78	76		81	78	76
9	88	81	77	74	87	81	77	74		80	76	73		79	76	73		78	75	73
10	86	78	74	71	85	78	74	71		77	74	71		77	73	71		76	73	71

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	585941	585941	585941
5°	563051	572494	574818
10°	489607	499621	501057
15°	407841	415473	413628
20°	267989	274041	274412
25°	74331	104507	73156
30°	17831	22652	18144
35°	4766	8243	4660
40°	1745	3124	1619
45°	891	1123	754
50°	558	558	407
55°	304	304	169
60°	349	194	194
65°	229	229	229
70°	283	283	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.5	24.7
10°-20°	1102.1	51.1
20°-30°	470.7	21.8
30°-40°	41.6	1.9
40°-50°	6.2	0.3
50°-60°	1.7	0.1
60°-70°	1.0	0.0
70°-80°	0.4	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°	2104.3	97.6
0°-40°	2145.9	99.6
0°-60°	2153.9	99.9
0°-90°	2155.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2155.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6048	6048	6048	6048	6048	
5°	5790	5838	5887	5878	5911	525
15°	4066	4106	4143	4112	4124	1090
25°	695	947	978	936	684	426
35°	40	50	70	50	39	34
45°	6	6	8	6	6	6
55°	2	2	2	2	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°	6048.4	6048.4	6048.4	6048.4	6048.4
2.5°	5942.2	5984.2	6021.8	6019.1	6050.2
5°	5790.0	5837.6	5887.1	5878.0	5911.0
7.5°	5410.7	5459.2	5523.4	5498.6	5520.6
10°	4977.2	5028.6	5079.0	5063.4	5093.6
12.5°	4571.4	4600.6	4637.4	4634.6	4666.6
15°	4066.5	4105.8	4142.6	4112.2	4124.2
17.5°	3434.2	3449.8	3477.4	3447.0	3455.3
20°	2599.5	2642.6	2658.2	2623.3	2661.8
22.5°	1626.3	1729.9	1738.2	1719.8	1662.2
25°	695.4	947.4	977.7	935.5	684.4
27.5°	281.4	359.2	465.5	351.8	273.9
30°	159.4	173.1	202.5	170.5	162.2
32.5°	76.0	97.1	116.4	94.3	77.0
35°	40.3	50.4	69.7	49.5	39.4
37.5°	22.9	29.4	42.1	27.4	22.9
40°	13.8	17.4	24.7	16.6	12.8
42.5°	9.1	11.0	13.8	10.1	8.2
45°	6.5	6.5	8.2	6.5	5.5
47.5°	4.6	4.6	5.5	3.7	3.7
50°	3.7	3.7	3.7	2.7	2.7
52.5°	2.7	2.7	2.7	1.8	1.8
55°	1.8	1.8	1.8	1.8	1.0
57.5°	1.8	1.8	1.8	1.0	1.0
60°	1.8	1.8	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	0.0
72.5°	1.0	1.0	1.0	1.0	1.0
75°	0.0	1.0	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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