

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: P1212339

Luminaire Tested: **LDSQA4A30940D010TE 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: P1212339
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: LDSQA4A30940D010TE 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

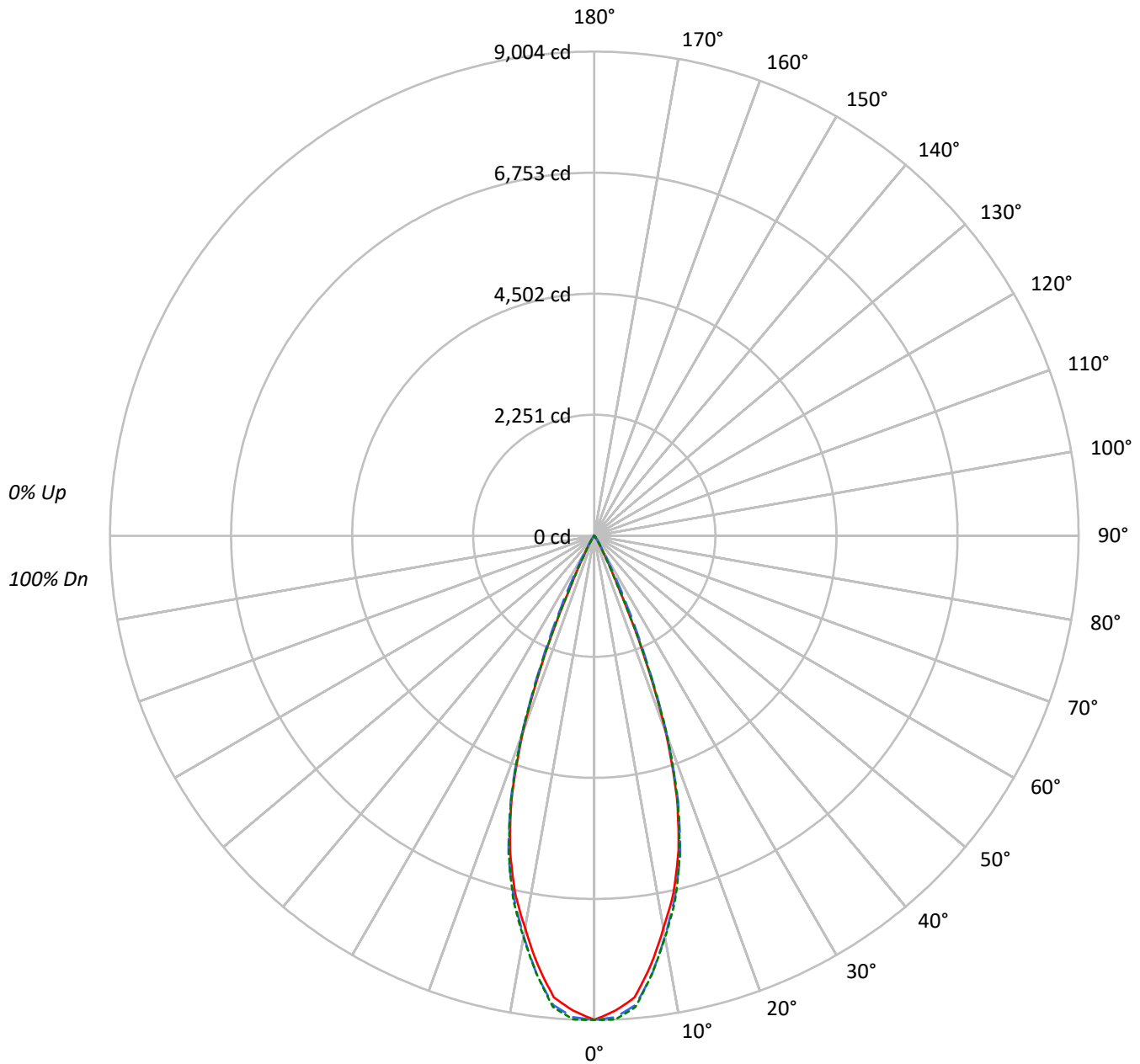
Lumens per Lamp: N/A
Luminaire Lumens: 3207.4 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	871995	871995	871995
5°	837935	851987	855430
10°	728645	743529	745673
15°	606942	618285	615557
20°	398824	407814	408381
25°	110631	155525	108878
30°	26545	33715	27004
35°	7096	12252	6930
40°	2592	4654	2415
45°	1302	1685	1110
50°	814	814	618
55°	456	456	236
60°	523	271	271
65°	321	321	321
70°	397	397	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.0	24.7
10°-20°	1640.2	51.1
20°-30°	700.5	21.8
30°-40°	61.9	1.9
40°-50°	9.2	0.3
50°-60°	2.6	0.1
60°-70°	1.4	0.0
70°-80°	0.6	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°	3131.7	97.6
0°-40°	3193.6	99.6
0°-60°	3205.4	99.9
0°-90°	3207.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3207.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9001	9001	9001	9001	9001	
5°	8617	8688	8761	8748	8797	781
15°	6052	6110	6165	6120	6138	1623
25°	1035	1410	1455	1392	1019	635
35°	60	75	104	74	59	50
45°	10	10	12	10	8	8
55°	3	3	3	3	1	3
65°	1	1	1	1	1	2
75°	0	1	0	0	0	1
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°	9001.2	9001.2	9001.2	9001.2	9001.2
2.5°	8843.0	8905.8	8961.7	8957.5	9004.0
5°	8616.7	8687.6	8761.2	8747.6	8796.6
7.5°	8052.2	8124.4	8219.8	8183.0	8215.8
10°	7407.2	7483.5	7558.5	7535.3	7580.3
12.5°	6803.1	6846.7	6901.2	6897.2	6944.9
15°	6051.7	6110.4	6164.8	6119.9	6137.6
17.5°	5110.8	5134.0	5174.9	5129.9	5142.2
20°	3868.6	3932.6	3955.8	3904.0	3961.3
22.5°	2420.5	2574.5	2586.8	2559.4	2473.6
25°	1035.0	1410.0	1455.0	1392.3	1018.6
27.5°	418.7	534.5	692.7	523.6	407.7
30°	237.3	257.8	301.4	253.7	241.4
32.5°	113.2	144.5	173.2	140.5	114.6
35°	60.0	75.0	103.6	73.7	58.6
37.5°	34.1	43.6	62.7	40.9	34.1
40°	20.5	25.9	36.8	24.5	19.1
42.5°	13.7	16.4	20.5	15.0	12.3
45°	9.5	9.5	12.3	9.5	8.1
47.5°	6.8	6.8	8.1	5.4	5.4
50°	5.4	5.4	5.4	4.1	4.1
52.5°	4.1	4.1	4.1	2.7	2.7
55°	2.7	2.7	2.7	2.7	1.4
57.5°	2.7	2.7	2.7	1.4	1.4
60°	2.7	2.7	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	0.0
72.5°	1.4	1.4	1.4	1.4	1.4
75°	0.0	1.4	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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