

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: P1212283

Luminaire Tested: **LDSQA4A25940D010TE 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: P1212283
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: LDSQA4A25940D010TE 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

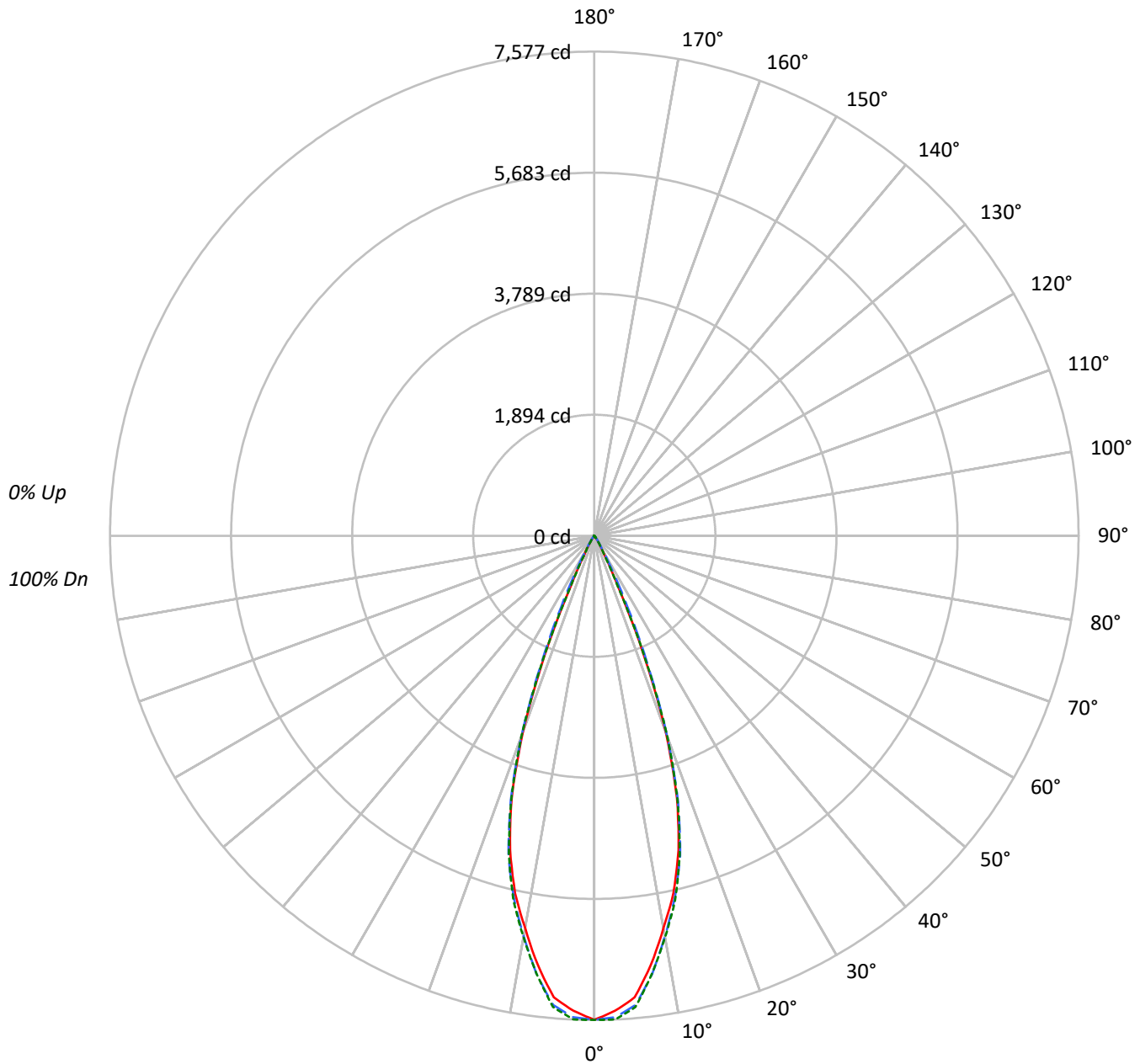
Lumens per Lamp: N/A
Luminaire Lumens: 2699.1 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.63 / 0.57
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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°	733831	733831	733831
5°	705166	716991	719889
10°	613189	625711	627521
15°	510771	520319	518022
20°	335629	343196	343670
25°	93091	130876	91626
30°	22339	28368	22719
35°	5972	10313	5830
40°	2175	3920	2036
45°	1096	1425	945
50°	693	693	512
55°	388	388	186
60°	446	213	213
65°	252	252	252
70°	312	312	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.7	24.7
10°-20°	1380.3	51.1
20°-30°	589.5	21.8
30°-40°	52.1	1.9
40°-50°	7.8	0.3
50°-60°	2.2	0.1
60°-70°	1.1	0.0
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°	2635.5	97.6
0°-40°	2687.5	99.6
0°-60°	2697.5	99.9
0°-90°	2699.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2699.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7575	7575	7575	7575	7575	
5°	7251	7311	7373	7362	7403	657
15°	5093	5142	5188	5150	5165	1365
25°	871	1187	1224	1172	857	534
35°	50	63	87	62	49	42
45°	8	8	10	8	7	7
55°	2	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7575.0	7575.0	7575.0	7575.0	7575.0
2.5°	7441.9	7494.6	7541.7	7538.2	7577.3
5°	7251.4	7311.0	7373.0	7361.5	7402.8
7.5°	6776.3	6837.0	6917.4	6886.4	6914.0
10°	6233.5	6297.8	6360.8	6341.3	6379.2
12.5°	5725.1	5761.8	5807.7	5804.3	5844.4
15°	5092.8	5142.1	5188.0	5150.1	5165.1
17.5°	4300.9	4320.5	4355.0	4317.0	4327.4
20°	3255.6	3309.5	3329.0	3285.4	3333.6
22.5°	2037.0	2166.5	2176.9	2153.9	2081.7
25°	870.9	1186.6	1224.4	1171.7	857.2
27.5°	352.4	449.8	582.9	440.7	343.1
30°	199.7	216.9	253.6	213.5	203.1
32.5°	95.3	121.6	145.8	118.2	96.5
35°	50.5	63.1	87.2	62.0	49.3
37.5°	28.7	36.7	52.8	34.4	28.7
40°	17.2	21.8	31.0	20.7	16.1
42.5°	11.5	13.8	17.2	12.7	10.4
45°	8.0	8.0	10.4	8.0	6.9
47.5°	5.7	5.7	6.9	4.6	4.6
50°	4.6	4.6	4.6	3.4	3.4
52.5°	3.4	3.4	3.4	2.3	2.3
55°	2.3	2.3	2.3	2.3	1.1
57.5°	2.3	2.3	2.3	1.1	1.1
60°	2.3	2.3	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	0.0
72.5°	1.1	1.1	1.1	1.1	1.1
75°	0.0	1.1	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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