

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: P1212471

Luminaire Tested: **LDSQA6A25927D010TE LAR35FL 6LSQA1H**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29057)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQA6A25927D010TE LAR35FL 6LSQA1H
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,
SELF-FLANGED, 35° FLOOD
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

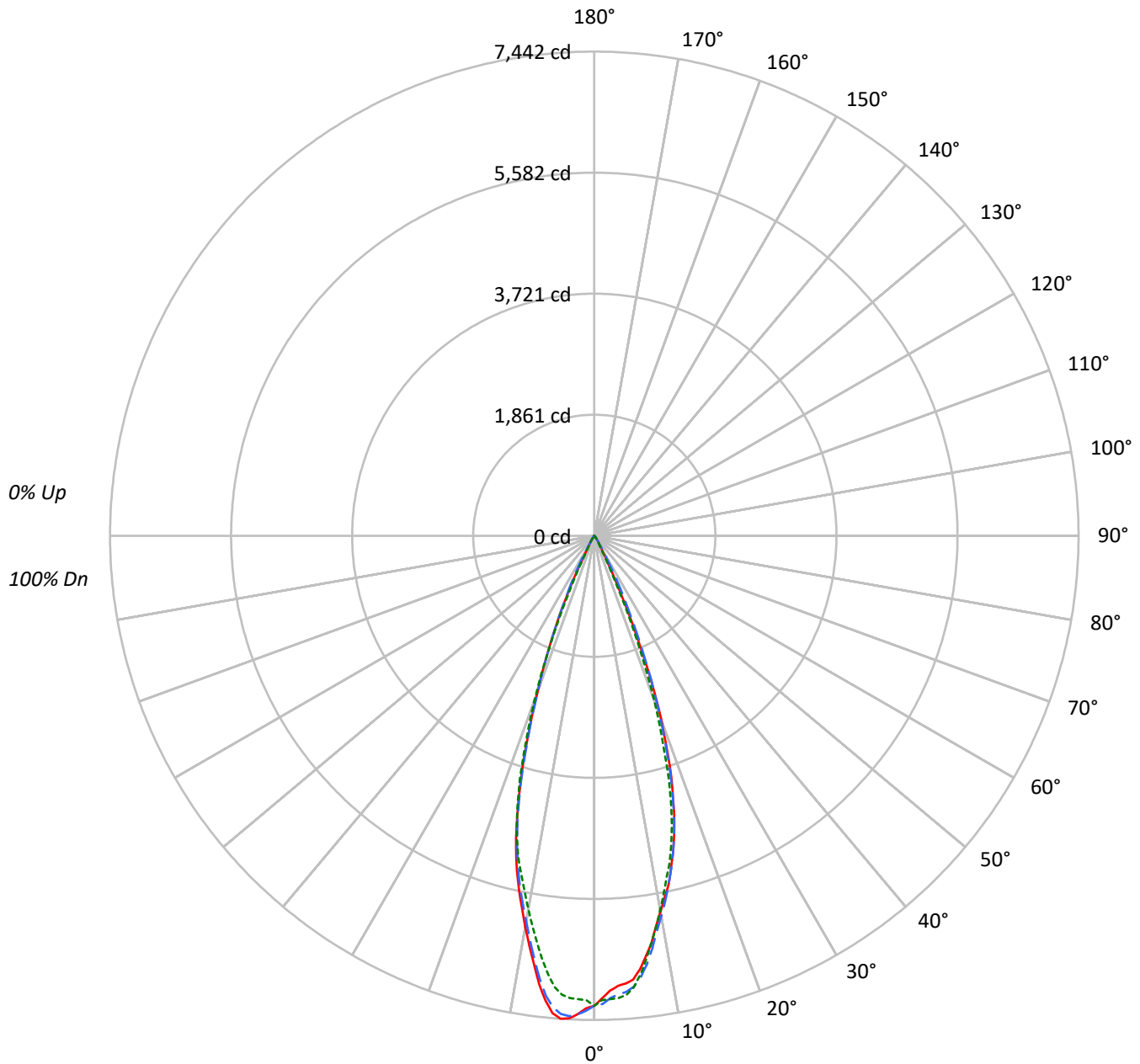
Lumens per Lamp: N/A
Luminaire Lumens: 2406.8 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.59 / 0.55
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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	96		
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93		
3	107	103	99	96	106	101	98	95	99	96	94	96	94	92	94	92	91	90		
4	104	98	94	91	102	97	93	91	95	92	90	93	91	89	92	89	88	86		
5	101	94	90	87	99	94	90	87	92	89	86	90	88	85	89	87	85	83		
6	97	91	87	84	96	90	86	83	89	85	83	88	85	82	87	84	82	81		
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78		
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76	75		
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73		
10	86	79	75	72	86	79	75	72	78	75	72	78	74	72	77	74	72	71		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	311120	311120	311120
5°	295967	301106	318277
10°	256430	255040	266884
15°	211747	205101	205952
20°	137718	122703	116948
25°	41393	31635	42124
30°	9033	6573	6975
35°	3222	1976	2176
40°	955	618	748
45°	268	177	225
50°	54	54	100
55°	60	0	113
60°	69	0	0
65°	82	0	0
70°	101	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.5	26.4
10°-20°	1235.5	51.3
20°-30°	488.2	20.3
30°-40°	40.1	1.7
40°-50°	5.5	0.2
50°-60°	0.7	0.0
60°-70°	0.2	0.0
70°-80°	0.1	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°	2360.2	98.1
0°-40°	2400.3	99.7
0°-60°	2406.5	100.0
0°-90°	2406.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2406.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7226	7226	7226	7226	7226	
5°	6848	6957	6967	7280	7364	619
15°	4750	4738	4601	4564	4620	1269
25°	871	1178	666	976	887	489
35°	61	62	38	52	41	46
45°	4	10	3	8	4	5
55°	1	1	0	1	2	1
65°	1	0	0	0	0	1
75°	0	0	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°	112.5°	135°	157.5°	180°
0°	7226.0	7226.0	7226.0	7226.0	7226.0	7226.0	7226.0	7226.0	7226.0
1°	7109.2	7028.1	7198.0	7191.3	7138.1	7288.0	7303.4	7400.3	7262.9
2°	6994.9	6930.6	7109.2	7127.7	7127.7	7314.6	7363.3	7484.4	7358.1
3°	6928.4	6875.3	7061.4	7110.0	7115.2	7323.4	7395.1	7530.9	7427.5
4°	6899.6	6851.0	7027.3	7065.0	7072.4	7292.4	7367.7	7522.7	7441.6
5°	6847.9	6793.4	6957.2	6963.1	6966.8	7192.0	7279.9	7433.5	7364.1
6°	6701.7	6673.0	6822.9	6790.3	6780.1	7020.7	7110.0	7253.3	7183.2
7°	6510.5	6491.3	6632.3	6582.8	6557.0	6781.5	6864.1	7000.1	6944.7
8°	6314.8	6268.4	6402.8	6359.9	6316.3	6509.8	6582.2	6707.7	6656.0
9°	6070.5	6046.8	6146.6	6132.5	6073.4	6272.0	6298.6	6421.2	6379.1
10°	5865.3	5836.4	5936.9	5910.3	5833.5	6006.9	6025.4	6142.9	6104.4
11°	5665.9	5628.3	5713.9	5679.9	5593.6	5749.3	5761.8	5871.2	5832.0
12°	5482.8	5421.5	5488.6	5448.1	5356.6	5493.8	5499.8	5602.4	5566.2
13°	5240.6	5200.0	5253.2	5209.6	5151.2	5228.8	5217.1	5314.4	5281.2
14°	5007.3	4956.4	5005.1	4952.7	4891.3	4943.1	4909.2	4994.0	4968.2
15°	4750.4	4699.4	4737.9	4673.6	4601.3	4620.4	4563.6	4642.6	4620.4
16°	4451.4	4400.4	4433.7	4355.4	4269.7	4258.7	4183.4	4252.7	4229.8
17°	4114.0	4077.0	4099.9	4001.7	3911.7	3873.2	3773.6	3834.8	3811.9
18°	3792.8	3720.4	3730.0	3620.8	3483.4	3459.7	3347.6	3405.9	3383.0
19°	3371.9	3337.9	3343.1	3219.8	3081.1	3037.5	2926.0	2977.6	2951.8
20°	3005.7	2954.1	2949.5	2816.0	2678.0	2632.1	2524.3	2577.5	2552.4
21°	2587.1	2618.8	2563.4	2422.5	2251.8	2256.3	2161.1	2166.3	2183.2
22°	2116.0	2232.0	2184.7	2017.9	1804.4	1902.7	1817.0	1822.9	1837.7
23°	1650.1	1770.5	1813.3	1611.0	1379.2	1574.9	1506.9	1511.4	1521.0
24°	1224.9	1394.6	1471.5	1239.7	993.1	1267.0	1228.5	1233.7	1223.5
25°	871.3	1070.5	1177.6	915.6	665.9	984.2	976.1	984.2	886.7
26°	588.4	807.0	928.9	642.4	412.0	727.2	776.7	759.0	575.1
27°	376.5	613.5	713.9	420.1	261.3	500.6	579.6	574.4	330.0
28°	265.1	426.0	527.2	258.4	201.6	314.5	414.2	378.0	211.2
29°	223.7	276.9	367.7	183.8	163.9	186.1	277.6	220.8	172.8
30°	181.7	183.8	241.4	148.4	132.2	132.9	177.2	144.7	140.3
32.5°	110.8	110.0	104.1	87.1	77.5	77.5	86.4	83.4	82.7
35°	61.3	67.2	62.0	52.4	37.6	46.6	52.4	49.5	41.4
37.5°	33.2	39.1	42.8	28.9	20.6	27.3	35.4	28.9	23.7
40°	17.0	21.4	30.3	16.2	11.0	15.6	24.3	16.2	13.3
42.5°	8.9	11.8	19.2	8.9	5.2	8.9	15.6	8.9	6.6
45°	4.4	5.9	10.4	4.4	2.9	4.4	8.1	5.2	3.7
47.5°	2.3	2.9	5.2	2.3	0.8	2.3	4.4	2.3	2.3
50°	0.8	1.5	2.9	0.8	0.8	0.8	2.3	1.5	1.5
52.5°	0.8	0.8	1.5	0.8	0.0	0.8	1.5	0.8	1.5
55°	0.8	0.8	0.8	0.0	0.0	0.8	0.8	0.8	1.5
57.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	1.5
60°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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Peachtree City, GA 30269

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— 0°-180° - - 45°-225° - - - 90°-270°

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Scaled Data Report



62.5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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