

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: P209396

Luminaire Tested: **LDSQ6B70D010 EU6B60708040 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35360)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQ6B70D010 EU6B60708040 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
D010TE
Light Source: HIGH LUMEN LED 4000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7309.4 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.95
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

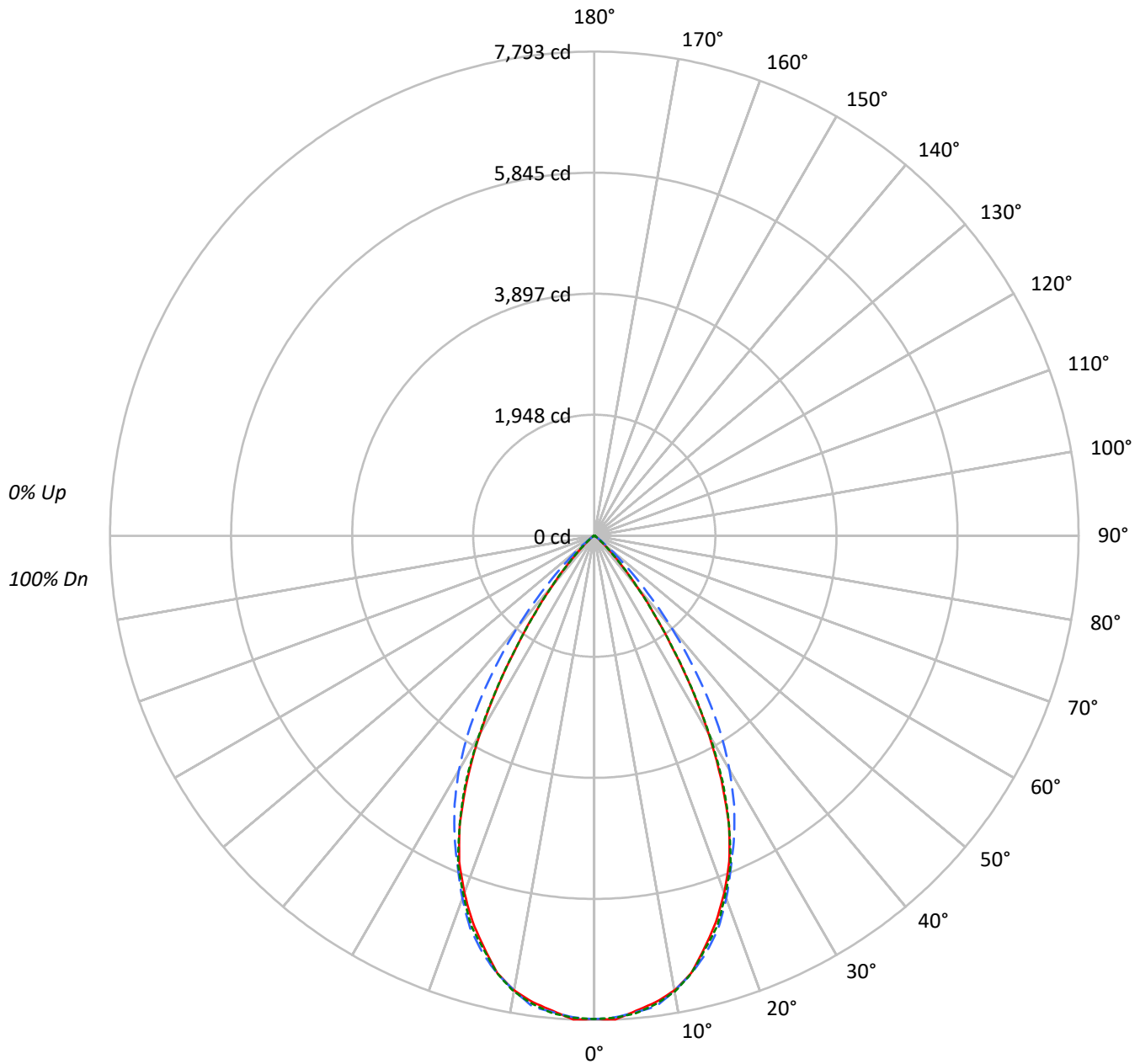
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75		
5	92	83	78	73	90	82	77	73	81	76	72	79	75	72	77	74	71	69		
6	87	78	72	68	86	77	72	67	76	71	67	74	70	67	73	69	66	65		
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60		
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56		
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53		
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.2	10.0
10°-20°	1937.0	26.5
20°-30°	2377.3	32.5
30°-40°	1641.1	22.5
40°-50°	513.1	7.0
50°-60°	80.1	1.1
60°-70°	23.2	0.3
70°-80°	7.6	0.1
80°-90°	1.7	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°	5042.5	69.0
0°-40°	6683.7	91.4
0°-60°	7276.9	99.6
0°-90°	7309.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7309.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7778	7778	7778	7778	7778	
5°	7675	7705	7695	7697	7714	726
15°	6862	6960	6950	6940	6886	1919
25°	5122	5254	5323	5288	5127	2295
35°	2161	2556	3171	2580	2171	1381
45°	407	556	892	551	417	364
55°	69	74	83	74	64	67
65°	20	24	20	24	20	22
75°	5	5	5	5	5	7
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7778.2	7778.2	7778.2	7778.2	7778.2	7778.2	7778.2	7778.2	7778.2	7778.2	7778.2
2.5°	7792.9	7685.0	7753.7	7739.0	7778.2	7802.7	7778.2	7822.3	7792.9	7758.6	7768.4
5°	7675.2	7689.9	7685.0	7694.8	7704.6	7704.6	7753.7	7758.6	7768.4	7694.8	7714.4
7.5°	7572.3	7572.3	7596.8	7587.0	7621.3	7611.5	7616.4	7655.6	7660.5	7640.9	7626.2
10°	7430.2	7410.6	7386.1	7386.1	7430.2	7435.1	7474.3	7479.2	7508.6	7430.2	7440.0
12.5°	7209.6	7199.8	7160.6	7180.2	7214.5	7194.9	7258.6	7263.5	7253.7	7219.4	7239.0
15°	6861.6	6900.9	6891.1	6886.2	6964.6	6954.8	6949.9	6964.6	6969.5	6949.9	6935.2
17.5°	6513.7	6548.0	6552.9	6562.7	6577.4	6592.1	6611.7	6665.6	6646.0	6631.3	6680.3
20°	6111.8	6097.1	6136.3	6175.5	6190.2	6190.2	6219.6	6258.8	6229.4	6209.8	6214.7
22.5°	5675.6	5700.1	5680.5	5719.7	5739.3	5763.8	5793.2	5827.5	5803.0	5749.1	5812.8
25°	5121.7	5136.4	5200.1	5195.2	5224.7	5283.5	5327.6	5327.6	5327.6	5322.7	5322.7
27.5°	4425.8	4416.0	4494.4	4548.3	4621.8	4714.9	4773.7	4866.9	4881.6	4866.9	4832.6
30°	3680.8	3671.0	3769.0	3837.6	3970.0	4014.1	4175.8	4264.0	4357.1	4352.2	4327.7
32.5°	2906.4	2926.0	3004.4	3102.4	3210.3	3347.5	3499.4	3695.5	3778.8	3798.4	3754.3
35°	2161.4	2190.8	2264.3	2347.7	2480.0	2631.9	2842.7	3028.9	3171.1	3171.1	3136.8
37.5°	1558.6	1568.4	1637.0	1690.9	1828.1	1965.4	2146.7	2401.6	2489.8	2524.1	2489.8
40°	1063.6	1063.6	1102.8	1161.6	1274.3	1391.9	1558.6	1749.7	1877.1	1931.1	1872.2
42.5°	676.4	686.2	715.6	754.8	838.1	941.0	1068.5	1210.6	1303.7	1342.9	1289.0
45°	406.8	416.6	441.1	470.5	524.4	588.1	676.4	779.3	857.7	892.0	867.5
47.5°	245.1	254.9	264.7	284.3	323.5	367.6	411.7	470.5	519.5	524.4	514.6
50°	142.1	142.1	151.9	166.6	186.2	210.8	235.3	269.6	284.3	303.9	284.3
52.5°	93.1	93.1	93.1	98.0	107.8	117.6	127.4	147.0	156.8	156.8	151.9
55°	68.6	68.6	68.6	68.6	73.5	73.5	73.5	78.4	83.3	83.3	83.3
57.5°	49.0	49.0	49.0	53.9	53.9	53.9	49.0	49.0	49.0	49.0	49.0
60°	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	34.3	34.3	34.3
62.5°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
65°	19.6	19.6	19.6	24.5	24.5	24.5	24.5	19.6	19.6	19.6	19.6
67.5°	14.7	14.7	14.7	19.6	19.6	19.6	19.6	19.6	14.7	14.7	14.7
70°	9.8	9.8	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
72.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	0.0	0.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	0.0	0.0	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	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	7778.2	7778.2	7778.2	7778.2	7778.2	7778.2	7778.2	7778.2
2.5°	7797.8	7773.3	7773.3	7773.3	7763.5	7773.3	7788.0	7763.5
5°	7714.4	7724.3	7680.1	7714.4	7729.2	7704.6	7763.5	7714.4
7.5°	7640.9	7626.2	7557.6	7606.6	7636.0	7645.8	7640.9	7601.7
10°	7493.9	7459.6	7430.2	7430.2	7420.4	7415.5	7469.4	7449.8
12.5°	7229.2	7253.7	7209.6	7234.1	7214.5	7219.4	7224.3	7214.5
15°	7003.8	6979.3	6920.5	6959.7	6935.2	6910.7	6959.7	6886.2
17.5°	6650.9	6646.0	6611.7	6587.2	6597.0	6592.1	6616.6	6582.3
20°	6234.3	6244.1	6224.5	6214.7	6200.0	6165.7	6195.1	6155.9
22.5°	5783.4	5793.2	5812.8	5773.6	5778.5	5729.5	5773.6	5729.5
25°	5327.6	5322.7	5298.2	5278.6	5224.7	5170.7	5160.9	5126.6
27.5°	4827.7	4793.3	4734.5	4670.8	4587.5	4514.0	4509.1	4484.6
30°	4278.7	4205.2	4097.4	3994.5	3867.0	3754.3	3754.3	3715.1
32.5°	3700.4	3533.7	3386.7	3259.3	3092.6	3028.9	2965.2	2930.9
35°	3009.3	2862.3	2685.8	2475.1	2396.7	2239.8	2249.6	2171.2
37.5°	2357.5	2176.1	2009.5	1837.9	1700.7	1627.2	1588.0	1548.8
40°	1749.7	1573.3	1391.9	1279.2	1156.7	1093.0	1068.5	1058.7
42.5°	1195.9	1048.9	931.2	838.1	774.4	705.8	686.2	676.4
45°	779.3	696.0	588.1	514.6	470.5	431.3	431.3	416.6
47.5°	465.6	411.7	357.8	308.8	279.4	254.9	245.1	240.2
50°	259.8	230.4	200.9	181.3	161.7	147.0	142.1	142.1
52.5°	142.1	127.4	117.6	102.9	93.1	93.1	93.1	88.2
55°	73.5	73.5	73.5	73.5	68.6	68.6	68.6	63.7
57.5°	49.0	49.0	53.9	53.9	53.9	49.0	49.0	49.0
60°	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
62.5°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
65°	19.6	24.5	24.5	24.5	24.5	19.6	19.6	19.6
67.5°	14.7	19.6	19.6	19.6	14.7	14.7	14.7	14.7
70°	14.7	14.7	14.7	14.7	14.7	9.8	9.8	9.8
72.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	4.9	4.9	4.9	4.9	4.9	0.0	0.0	0.0
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°









(END OF REPORT)