

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: P209388

Luminaire Tested: **LDSQ6B60D010 EU6B60709035 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209388
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: LDSQ6B60D010 EU6B60709035 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 3500 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5153.5 lumens
Efficiency: N/A
Efficacy: 82.5 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

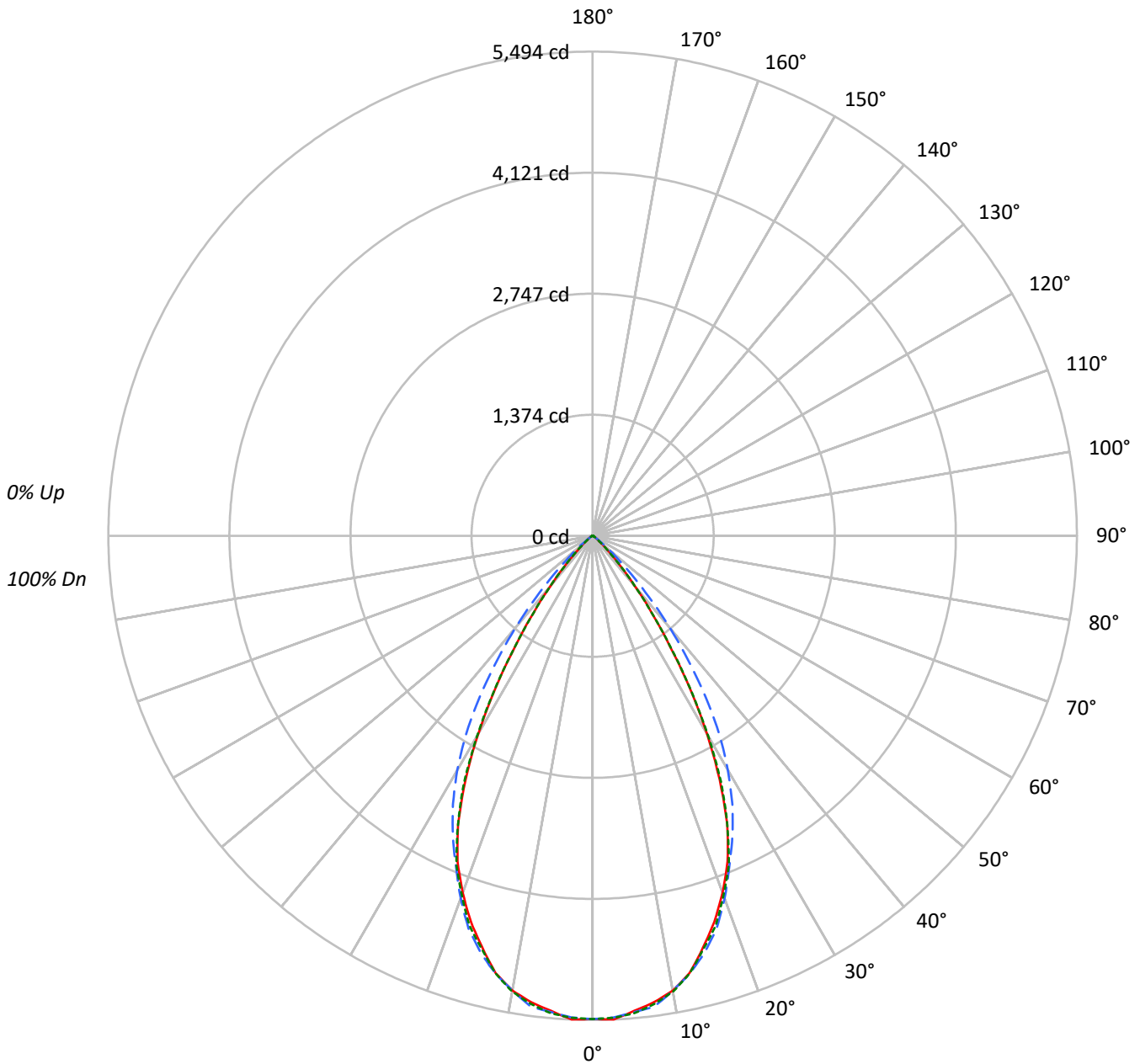
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	513.4	10.0
10°-20°	1365.7	26.5
20°-30°	1676.1	32.5
30°-40°	1157.1	22.5
40°-50°	361.8	7.0
50°-60°	56.5	1.1
60°-70°	16.3	0.3
70°-80°	5.4	0.1
80°-90°	1.2	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°	3555.2	69.0
0°-40°	4712.3	91.4
0°-60°	5130.5	99.6
0°-90°	5153.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5153.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5484	5484	5484	5484	5484	
5°	5411	5432	5425	5427	5439	512
15°	4838	4907	4900	4893	4855	1353
25°	3611	3704	3753	3728	3614	1618
35°	1524	1802	2236	1819	1531	974
45°	287	392	629	389	294	257
55°	48	52	59	52	45	47
65°	14	17	14	17	14	15
75°	4	4	4	4	4	5
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5483.9	5483.9	5483.9	5483.9	5483.9	5483.9	5483.9	5483.9	5483.9	5483.9	5483.9
2.5°	5494.3	5418.3	5466.7	5456.3	5483.9	5501.2	5483.9	5515.0	5494.3	5470.1	5477.0
5°	5411.4	5421.7	5418.3	5425.2	5432.1	5432.1	5466.7	5470.1	5477.0	5425.2	5439.0
7.5°	5338.8	5338.8	5356.1	5349.2	5373.4	5366.4	5369.9	5397.5	5401.0	5387.2	5376.8
10°	5238.6	5224.8	5207.5	5207.5	5238.6	5242.0	5269.7	5273.1	5293.9	5238.6	5245.5
12.5°	5083.1	5076.2	5048.5	5062.4	5086.5	5072.7	5117.6	5121.1	5114.2	5090.0	5103.8
15°	4837.7	4865.4	4858.5	4855.0	4910.3	4903.4	4899.9	4910.3	4913.8	4899.9	4889.6
17.5°	4592.4	4616.6	4620.0	4627.0	4637.3	4647.7	4661.5	4699.5	4685.7	4675.3	4709.9
20°	4309.1	4298.7	4326.3	4354.0	4364.3	4364.3	4385.1	4412.7	4392.0	4378.2	4381.6
22.5°	4001.5	4018.8	4005.0	4032.6	4046.4	4063.7	4084.4	4108.6	4091.4	4053.3	4098.3
25°	3611.0	3621.4	3666.3	3662.9	3683.6	3725.1	3756.2	3756.2	3756.2	3752.7	3752.7
27.5°	3120.3	3113.4	3168.7	3206.7	3258.6	3324.2	3365.7	3431.3	3441.7	3431.3	3407.2
30°	2595.1	2588.2	2657.3	2705.7	2799.0	2830.1	2944.1	3006.3	3072.0	3068.5	3051.2
32.5°	2049.1	2063.0	2118.2	2187.4	2263.4	2360.1	2467.3	2605.5	2664.2	2678.0	2646.9
35°	1523.9	1544.6	1596.5	1655.2	1748.5	1855.6	2004.2	2135.5	2235.7	2235.7	2211.5
37.5°	1098.9	1105.8	1154.1	1192.2	1288.9	1385.7	1513.5	1693.2	1755.4	1779.6	1755.4
40°	749.9	749.9	777.5	819.0	898.4	981.4	1098.9	1233.6	1323.5	1361.5	1320.0
42.5°	476.9	483.8	504.5	532.2	590.9	663.5	753.3	853.5	919.2	946.8	908.8
45°	286.8	293.7	311.0	331.7	369.7	414.7	476.9	549.4	604.7	628.9	611.6
47.5°	172.8	179.7	186.6	200.4	228.1	259.2	290.3	331.7	366.3	369.7	362.8
50°	100.2	100.2	107.1	117.5	131.3	148.6	165.9	190.1	200.4	214.2	200.4
52.5°	65.7	65.7	65.7	69.1	76.0	82.9	89.8	103.7	110.6	110.6	107.1
55°	48.4	48.4	48.4	48.4	51.8	51.8	51.8	55.3	58.7	58.7	58.7
57.5°	34.6	34.6	34.6	38.0	38.0	38.0	34.6	34.6	34.6	34.6	34.6
60°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	24.2	24.2	24.2
62.5°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
65°	13.8	13.8	13.8	17.3	17.3	17.3	17.3	13.8	13.8	13.8	13.8
67.5°	10.4	10.4	10.4	13.8	13.8	13.8	13.8	13.8	10.4	10.4	10.4
70°	6.9	6.9	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
72.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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°	5483.9	5483.9	5483.9	5483.9	5483.9	5483.9	5483.9	5483.9
2.5°	5497.8	5480.5	5480.5	5480.5	5473.6	5480.5	5490.8	5473.6
5°	5439.0	5445.9	5414.8	5439.0	5449.4	5432.1	5473.6	5439.0
7.5°	5387.2	5376.8	5328.4	5363.0	5383.7	5390.6	5387.2	5359.5
10°	5283.5	5259.3	5238.6	5238.6	5231.7	5228.2	5266.2	5252.4
12.5°	5096.9	5114.2	5083.1	5100.4	5086.5	5090.0	5093.5	5086.5
15°	4938.0	4920.7	4879.2	4906.9	4889.6	4872.3	4906.9	4855.0
17.5°	4689.2	4685.7	4661.5	4644.2	4651.1	4647.7	4665.0	4640.8
20°	4395.4	4402.4	4388.5	4381.6	4371.3	4347.1	4367.8	4340.2
22.5°	4077.5	4084.4	4098.3	4070.6	4074.1	4039.5	4070.6	4039.5
25°	3756.2	3752.7	3735.4	3721.6	3683.6	3645.6	3638.7	3614.5
27.5°	3403.7	3379.5	3338.0	3293.1	3234.4	3182.5	3179.1	3161.8
30°	3016.7	2964.8	2888.8	2816.3	2726.4	2646.9	2646.9	2619.3
32.5°	2608.9	2491.4	2387.8	2297.9	2180.4	2135.5	2090.6	2066.4
35°	2121.7	2018.0	1893.6	1745.0	1689.8	1579.2	1586.1	1530.8
37.5°	1662.1	1534.3	1416.8	1295.8	1199.1	1147.2	1119.6	1091.9
40°	1233.6	1109.2	981.4	901.9	815.5	770.6	753.3	746.4
42.5°	843.2	739.5	656.6	590.9	546.0	497.6	483.8	476.9
45°	549.4	490.7	414.7	362.8	331.7	304.1	304.1	293.7
47.5°	328.3	290.3	252.3	217.7	197.0	179.7	172.8	169.3
50°	183.1	162.4	141.7	127.9	114.0	103.7	100.2	100.2
52.5°	100.2	89.8	82.9	72.6	65.7	65.7	65.7	62.2
55°	51.8	51.8	51.8	51.8	48.4	48.4	48.4	44.9
57.5°	34.6	34.6	38.0	38.0	38.0	34.6	34.6	34.6
60°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
62.5°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
65°	13.8	17.3	17.3	17.3	17.3	13.8	13.8	13.8
67.5°	10.4	13.8	13.8	13.8	10.4	10.4	10.4	10.4
70°	10.4	10.4	10.4	10.4	10.4	6.9	6.9	6.9
72.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	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)