

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: P209390

Luminaire Tested: **LDSQ6B60D010 EU6B60709050 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209390
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 EU6B60709050 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 5000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5184.6 lumens
Efficiency: N/A
Efficacy: 83.0 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

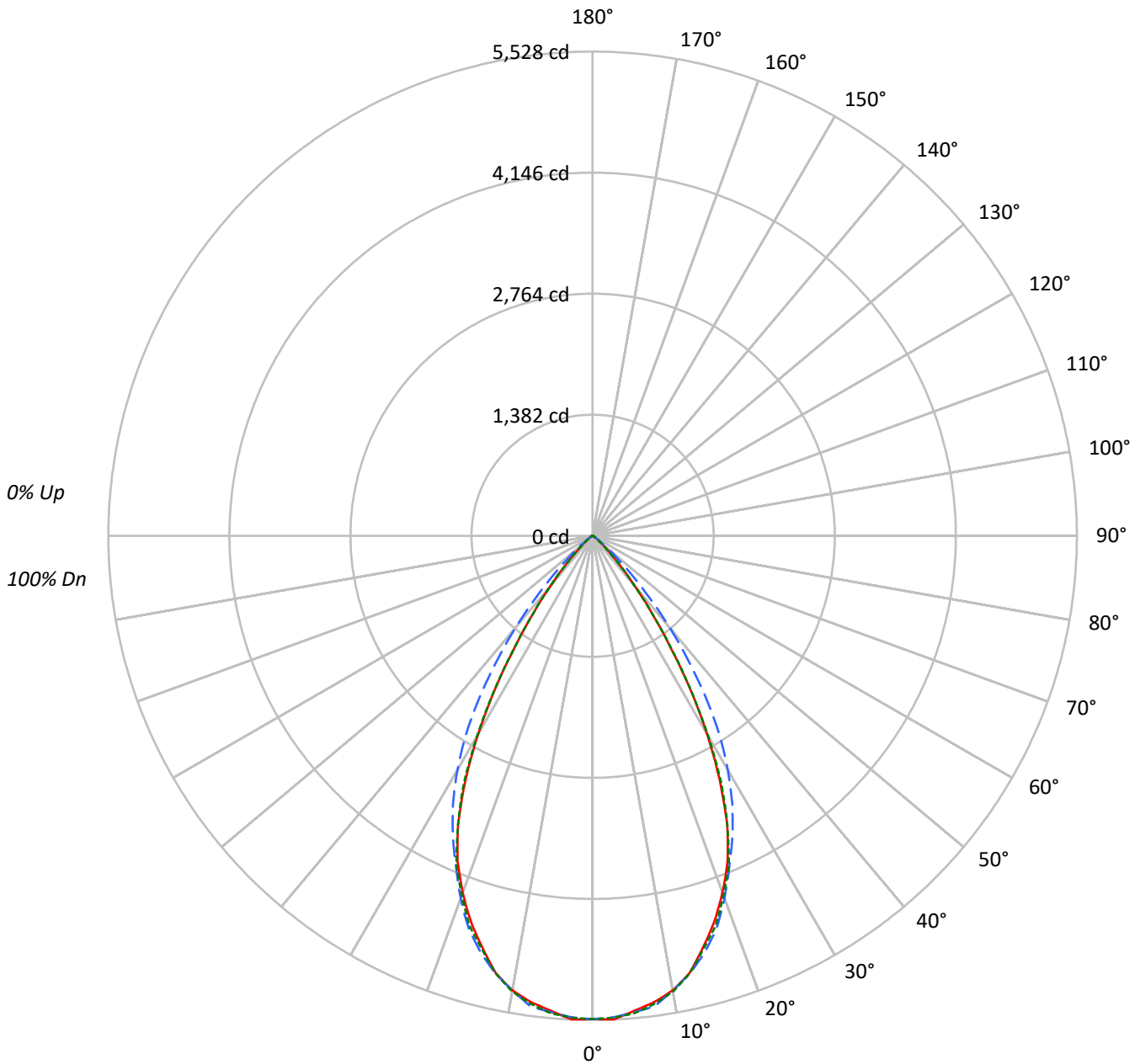
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	516.5	10.0
10°-20°	1374.0	26.5
20°-30°	1686.3	32.5
30°-40°	1164.1	22.5
40°-50°	363.9	7.0
50°-60°	56.8	1.1
60°-70°	16.4	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°	3576.7	69.0
0°-40°	4740.8	91.4
0°-60°	5161.6	99.6
0°-90°	5184.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5184.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5517	5517	5517	5517	5517	
5°	5444	5465	5458	5460	5472	515
15°	4867	4937	4930	4923	4884	1361
25°	3633	3727	3775	3751	3636	1628
35°	1533	1813	2249	1830	1540	979
45°	288	395	633	391	296	258
55°	49	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°	5517.1	5517.1	5517.1	5517.1	5517.1	5517.1	5517.1	5517.1	5517.1	5517.1	5517.1
2.5°	5527.6	5451.1	5499.8	5489.3	5517.1	5534.5	5517.1	5548.4	5527.6	5503.2	5510.2
5°	5444.1	5454.6	5451.1	5458.0	5465.0	5465.0	5499.8	5503.2	5510.2	5458.0	5471.9
7.5°	5371.1	5371.1	5388.5	5381.6	5405.9	5398.9	5402.4	5430.2	5433.7	5419.8	5409.4
10°	5270.3	5256.4	5239.0	5239.0	5270.3	5273.8	5301.6	5305.1	5325.9	5270.3	5277.3
12.5°	5113.9	5106.9	5079.1	5093.0	5117.3	5103.4	5148.6	5152.1	5145.2	5120.8	5134.7
15°	4867.0	4894.9	4887.9	4884.4	4940.0	4933.1	4929.6	4940.0	4943.5	4929.6	4919.2
17.5°	4620.2	4644.5	4648.0	4655.0	4665.4	4675.8	4689.7	4728.0	4714.1	4703.6	4738.4
20°	4335.1	4324.7	4352.5	4380.3	4390.8	4390.8	4411.6	4439.4	4418.6	4404.7	4408.1
22.5°	4025.7	4043.1	4029.2	4057.0	4070.9	4088.3	4109.2	4133.5	4116.1	4077.9	4123.1
25°	3632.9	3643.3	3688.5	3685.0	3705.9	3747.6	3778.9	3778.9	3778.9	3775.4	3775.4
27.5°	3139.2	3132.3	3187.9	3226.2	3278.3	3344.4	3386.1	3452.1	3462.6	3452.1	3427.8
30°	2610.8	2603.9	2673.4	2722.1	2815.9	2847.2	2961.9	3024.5	3090.6	3087.1	3069.7
32.5°	2061.5	2075.4	2131.1	2200.6	2277.1	2374.4	2482.2	2621.2	2680.3	2694.3	2663.0
35°	1533.1	1554.0	1606.1	1665.2	1759.1	1866.9	2016.3	2148.4	2249.3	2249.3	2224.9
37.5°	1105.5	1112.5	1161.1	1199.4	1296.7	1394.1	1522.7	1703.5	1766.0	1790.4	1766.0
40°	754.4	754.4	782.2	823.9	903.9	987.3	1105.5	1241.1	1331.5	1369.7	1328.0
42.5°	479.8	486.7	507.6	535.4	594.5	667.5	757.9	858.7	924.7	952.5	914.3
45°	288.5	295.5	312.9	333.7	372.0	417.2	479.8	552.8	608.4	632.7	615.3
47.5°	173.8	180.8	187.7	201.6	229.4	260.7	292.0	333.7	368.5	372.0	365.0
50°	100.8	100.8	107.8	118.2	132.1	149.5	166.9	191.2	201.6	215.5	201.6
52.5°	66.1	66.1	66.1	69.5	76.5	83.4	90.4	104.3	111.2	111.2	107.8
55°	48.7	48.7	48.7	48.7	52.1	52.1	52.1	55.6	59.1	59.1	59.1
57.5°	34.8	34.8	34.8	38.2	38.2	38.2	34.8	34.8	34.8	34.8	34.8
60°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	24.3	24.3	24.3
62.5°	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
65°	13.9	13.9	13.9	17.4	17.4	17.4	17.4	13.9	13.9	13.9	13.9
67.5°	10.4	10.4	10.4	13.9	13.9	13.9	13.9	13.9	10.4	10.4	10.4
70°	7.0	7.0	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
72.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
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°	5517.1	5517.1	5517.1	5517.1	5517.1	5517.1	5517.1	5517.1
2.5°	5531.0	5513.7	5513.7	5513.7	5506.7	5513.7	5524.1	5506.7
5°	5471.9	5478.9	5447.6	5471.9	5482.4	5465.0	5506.7	5471.9
7.5°	5419.8	5409.4	5360.7	5395.5	5416.3	5423.3	5419.8	5392.0
10°	5315.5	5291.2	5270.3	5270.3	5263.4	5259.9	5298.1	5284.2
12.5°	5127.8	5145.2	5113.9	5131.2	5117.3	5120.8	5124.3	5117.3
15°	4967.9	4950.5	4908.8	4936.6	4919.2	4901.8	4936.6	4884.4
17.5°	4717.6	4714.1	4689.7	4672.4	4679.3	4675.8	4693.2	4668.9
20°	4422.1	4429.0	4415.1	4408.1	4397.7	4373.4	4394.2	4366.4
22.5°	4102.2	4109.2	4123.1	4095.3	4098.7	4064.0	4095.3	4064.0
25°	3778.9	3775.4	3758.0	3744.1	3705.9	3667.7	3660.7	3636.4
27.5°	3424.3	3400.0	3358.3	3313.1	3254.0	3201.8	3198.3	3181.0
30°	3034.9	2982.8	2906.3	2833.3	2742.9	2663.0	2663.0	2635.2
32.5°	2624.7	2506.5	2402.2	2311.8	2193.6	2148.4	2103.3	2078.9
35°	2134.5	2030.3	1905.1	1755.6	1700.0	1588.7	1595.7	1540.1
37.5°	1672.2	1543.5	1425.3	1303.7	1206.3	1154.2	1126.4	1098.6
40°	1241.1	1115.9	987.3	907.4	820.4	775.2	757.9	750.9
42.5°	848.3	744.0	660.5	594.5	549.3	500.6	486.7	479.8
45°	552.8	493.7	417.2	365.0	333.7	305.9	305.9	295.5
47.5°	330.3	292.0	253.8	219.0	198.2	180.8	173.8	170.3
50°	184.3	163.4	142.5	128.6	114.7	104.3	100.8	100.8
52.5°	100.8	90.4	83.4	73.0	66.1	66.1	66.1	62.6
55°	52.1	52.1	52.1	52.1	48.7	48.7	48.7	45.2
57.5°	34.8	34.8	38.2	38.2	38.2	34.8	34.8	34.8
60°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
62.5°	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
65°	13.9	17.4	17.4	17.4	17.4	13.9	13.9	13.9
67.5°	10.4	13.9	13.9	13.9	10.4	10.4	10.4	10.4
70°	10.4	10.4	10.4	10.4	10.4	7.0	7.0	7.0
72.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°









(END OF REPORT)