

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: P209380

Luminaire Tested: **LDSQ6B60D010 EU6B60708027 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209380
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 EU6B60708027 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 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5690.7 lumens
Efficiency: N/A
Efficacy: 91.1 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

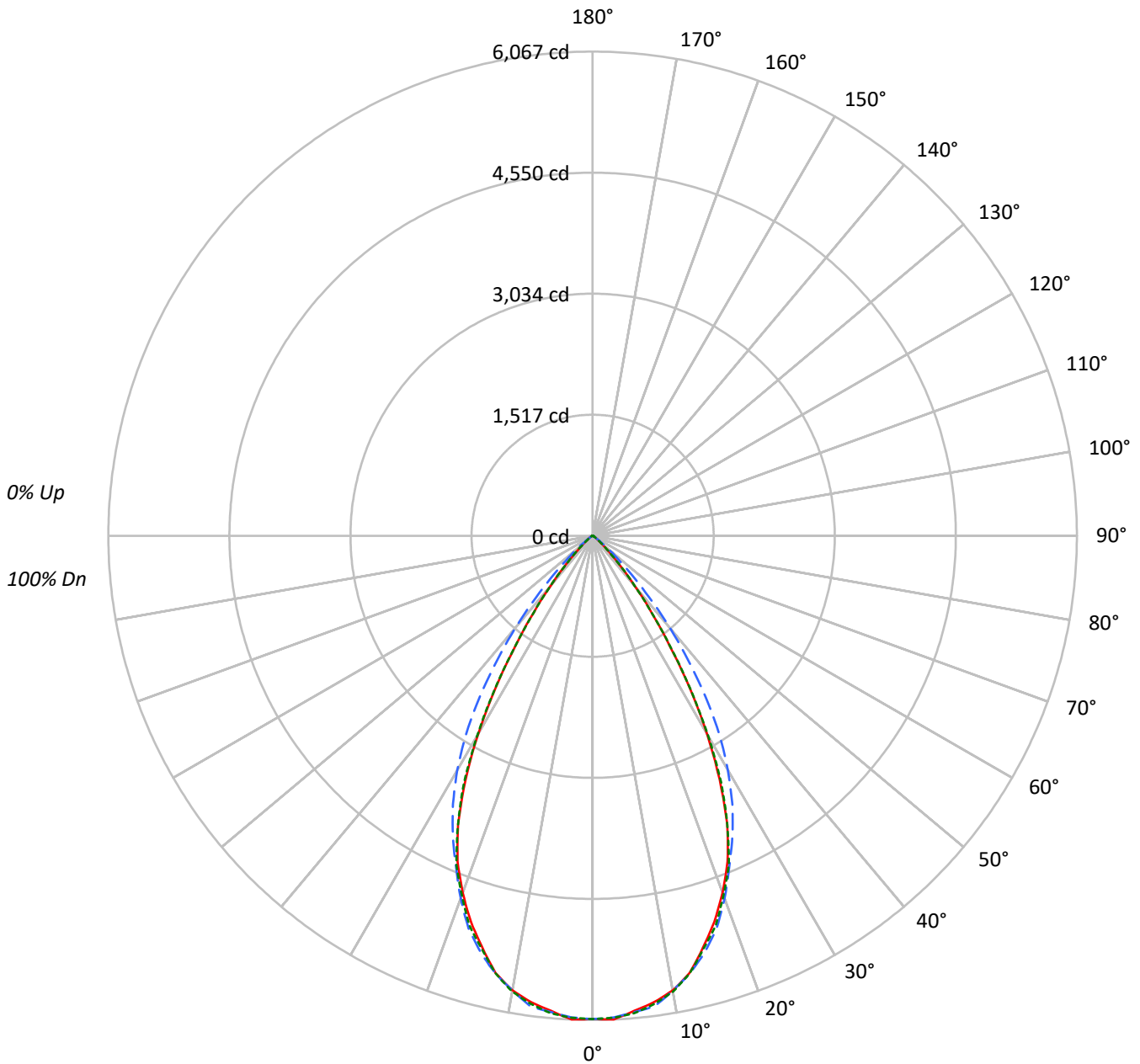
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	566.9	10.0
10°-20°	1508.1	26.5
20°-30°	1850.9	32.5
30°-40°	1277.7	22.5
40°-50°	399.5	7.0
50°-60°	62.4	1.1
60°-70°	18.0	0.3
70°-80°	5.9	0.1
80°-90°	1.3	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°	3925.9	69.0
0°-40°	5203.6	91.4
0°-60°	5665.5	99.6
0°-90°	5690.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5690.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6056	6056	6056	6056	6056	
5°	5976	5998	5991	5993	6006	565
15°	5342	5418	5411	5403	5361	1494
25°	3988	4091	4144	4117	3991	1787
35°	1683	1990	2469	2009	1690	1075
45°	317	433	694	429	324	284
55°	53	57	65	57	50	52
65°	15	19	15	19	15	17
75°	4	4	4	4	4	6
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°	6055.8	6055.8	6055.8	6055.8	6055.8	6055.8	6055.8	6055.8	6055.8	6055.8	6055.8
2.5°	6067.2	5983.3	6036.7	6025.2	6055.8	6074.8	6055.8	6090.1	6067.2	6040.5	6048.1
5°	5975.6	5987.1	5983.3	5990.9	5998.5	5998.5	6036.7	6040.5	6048.1	5990.9	6006.1
7.5°	5895.5	5895.5	5914.6	5906.9	5933.6	5926.0	5929.8	5960.4	5964.2	5948.9	5937.5
10°	5784.8	5769.6	5750.5	5750.5	5784.8	5788.6	5819.2	5823.0	5845.9	5784.8	5792.5
12.5°	5613.1	5605.5	5575.0	5590.2	5616.9	5601.7	5651.3	5655.1	5647.5	5620.7	5636.0
15°	5342.2	5372.7	5365.1	5361.3	5422.3	5414.7	5410.9	5422.3	5426.1	5410.9	5399.4
17.5°	5071.3	5098.0	5101.8	5109.4	5120.9	5132.3	5147.6	5189.6	5174.3	5162.8	5201.0
20°	4758.4	4746.9	4777.4	4808.0	4819.4	4819.4	4842.3	4872.8	4849.9	4834.7	4838.5
22.5°	4418.8	4437.8	4422.6	4453.1	4468.4	4487.4	4510.3	4537.0	4518.0	4476.0	4525.6
25°	3987.6	3999.0	4048.6	4044.8	4067.7	4113.5	4147.8	4147.8	4147.8	4144.0	4144.0
27.5°	3445.7	3438.1	3499.1	3541.1	3598.3	3670.8	3716.6	3789.1	3800.6	3789.1	3762.4
30°	2865.7	2858.1	2934.4	2987.8	3090.8	3125.2	3251.1	3319.8	3392.3	3388.5	3369.4
32.5°	2262.8	2278.1	2339.1	2415.4	2499.4	2606.2	2724.5	2877.2	2942.0	2957.3	2922.9
35°	1682.8	1705.7	1762.9	1827.8	1930.8	2049.1	2213.2	2358.2	2468.9	2468.9	2442.1
37.5°	1213.4	1221.1	1274.5	1316.5	1423.3	1530.2	1671.3	1869.8	1938.5	1965.2	1938.5
40°	828.0	828.0	858.6	904.4	992.1	1083.7	1213.4	1362.3	1461.5	1503.4	1457.7
42.5°	526.6	534.2	557.1	587.6	652.5	732.6	831.9	942.5	1015.0	1045.5	1003.6
45°	316.7	324.3	343.4	366.3	408.3	457.9	526.6	606.7	667.8	694.5	675.4
47.5°	190.8	198.4	206.1	221.3	251.8	286.2	320.5	366.3	404.5	408.3	400.7
50°	110.7	110.7	118.3	129.7	145.0	164.1	183.2	209.9	221.3	236.6	221.3
52.5°	72.5	72.5	72.5	76.3	83.9	91.6	99.2	114.5	122.1	122.1	118.3
55°	53.4	53.4	53.4	53.4	57.2	57.2	57.2	61.1	64.9	64.9	64.9
57.5°	38.2	38.2	38.2	42.0	42.0	42.0	38.2	38.2	38.2	38.2	38.2
60°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	26.7	26.7	26.7
62.5°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
65°	15.3	15.3	15.3	19.1	19.1	19.1	19.1	15.3	15.3	15.3	15.3
67.5°	11.4	11.4	11.4	15.3	15.3	15.3	15.3	15.3	11.4	11.4	11.4
70°	7.6	7.6	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
72.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	0.0	0.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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°	6055.8	6055.8	6055.8	6055.8	6055.8	6055.8	6055.8	6055.8
2.5°	6071.0	6051.9	6051.9	6051.9	6044.3	6051.9	6063.4	6044.3
5°	6006.1	6013.8	5979.4	6006.1	6017.6	5998.5	6044.3	6006.1
7.5°	5948.9	5937.5	5884.0	5922.2	5945.1	5952.7	5948.9	5918.4
10°	5834.4	5807.7	5784.8	5784.8	5777.2	5773.4	5815.4	5800.1
12.5°	5628.4	5647.5	5613.1	5632.2	5616.9	5620.7	5624.6	5616.9
15°	5452.8	5433.8	5388.0	5418.5	5399.4	5380.3	5418.5	5361.3
17.5°	5178.1	5174.3	5147.6	5128.5	5136.1	5132.3	5151.4	5124.7
20°	4853.8	4861.4	4846.1	4838.5	4827.0	4800.3	4823.2	4792.7
22.5°	4502.7	4510.3	4525.6	4495.1	4498.9	4460.7	4495.1	4460.7
25°	4147.8	4144.0	4124.9	4109.7	4067.7	4025.7	4018.1	3991.4
27.5°	3758.6	3731.9	3686.1	3636.5	3571.6	3514.4	3510.6	3491.5
30°	3331.2	3274.0	3190.1	3109.9	3010.7	2922.9	2922.9	2892.4
32.5°	2881.0	2751.2	2636.8	2537.5	2407.8	2358.2	2308.6	2281.9
35°	2342.9	2228.5	2091.1	1927.0	1866.0	1743.8	1751.5	1690.4
37.5°	1835.4	1694.2	1564.5	1430.9	1324.1	1266.9	1236.3	1205.8
40°	1362.3	1224.9	1083.7	995.9	900.5	850.9	831.9	824.2
42.5°	931.1	816.6	725.0	652.5	602.9	549.5	534.2	526.6
45°	606.7	541.9	457.9	400.7	366.3	335.8	335.8	324.3
47.5°	362.5	320.5	278.6	240.4	217.5	198.4	190.8	187.0
50°	202.2	179.3	156.4	141.2	125.9	114.5	110.7	110.7
52.5°	110.7	99.2	91.6	80.1	72.5	72.5	72.5	68.7
55°	57.2	57.2	57.2	57.2	53.4	53.4	53.4	49.6
57.5°	38.2	38.2	42.0	42.0	42.0	38.2	38.2	38.2
60°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
62.5°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
65°	15.3	19.1	19.1	19.1	19.1	15.3	15.3	15.3
67.5°	11.4	15.3	15.3	15.3	11.4	11.4	11.4	11.4
70°	11.4	11.4	11.4	11.4	11.4	7.6	7.6	7.6
72.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	3.8	3.8	3.8	3.8	3.8	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)