

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: P209391

Luminaire Tested: **LDSQ6B60D010 EU6B60709727 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209391
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 EU6B60709727 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: 4249.2 lumens
Efficiency: N/A
Efficacy: 68.0 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

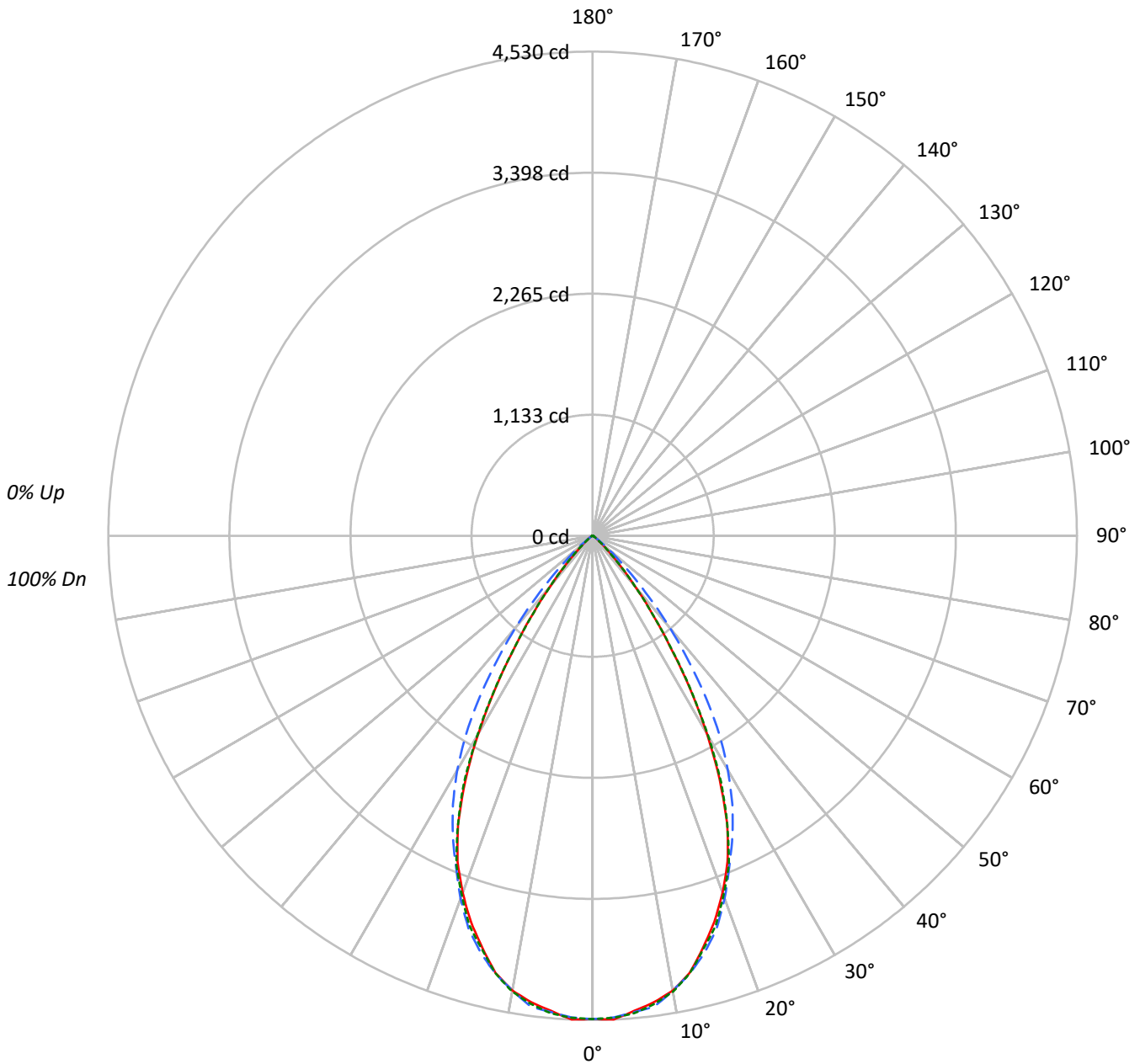
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	423.3	10.0
10°-20°	1126.1	26.5
20°-30°	1382.0	32.5
30°-40°	954.1	22.5
40°-50°	298.3	7.0
50°-60°	46.6	1.1
60°-70°	13.5	0.3
70°-80°	4.4	0.1
80°-90°	1.0	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°	2931.4	69.0
0°-40°	3885.5	91.4
0°-60°	4230.4	99.6
0°-90°	4249.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4249.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4522	4522	4522	4522	4522	
5°	4462	4479	4473	4475	4485	422
15°	3989	4046	4040	4035	4003	1116
25°	2978	3054	3094	3074	2980	1334
35°	1256	1486	1844	1500	1262	803
45°	236	323	519	321	242	212
55°	40	43	48	43	37	39
65°	11	14	11	14	11	13
75°	3	3	3	3	3	4
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°	4521.8	4521.8	4521.8	4521.8	4521.8	4521.8	4521.8	4521.8	4521.8	4521.8	4521.8
2.5°	4530.3	4467.6	4507.5	4499.0	4521.8	4536.0	4521.8	4547.4	4530.3	4510.4	4516.1
5°	4461.9	4470.5	4467.6	4473.3	4479.0	4479.0	4507.5	4510.4	4516.1	4473.3	4484.7
7.5°	4402.1	4402.1	4416.4	4410.7	4430.6	4424.9	4427.8	4450.6	4453.4	4442.0	4433.5
10°	4319.5	4308.1	4293.8	4293.8	4319.5	4322.3	4345.1	4348.0	4365.1	4319.5	4325.2
12.5°	4191.3	4185.6	4162.8	4174.2	4194.1	4182.7	4219.8	4222.6	4216.9	4197.0	4208.4
15°	3989.0	4011.8	4006.1	4003.2	4048.8	4043.1	4040.3	4048.8	4051.7	4040.3	4031.7
17.5°	3786.7	3806.6	3809.5	3815.2	3823.7	3832.3	3843.7	3875.0	3863.6	3855.1	3883.5
20°	3553.0	3544.5	3567.3	3590.1	3598.6	3598.6	3615.7	3638.5	3621.4	3610.0	3612.9
22.5°	3299.4	3313.7	3302.3	3325.1	3336.5	3350.7	3367.8	3387.8	3373.5	3342.2	3379.2
25°	2977.5	2986.0	3023.1	3020.2	3037.3	3071.5	3097.1	3097.1	3097.1	3094.3	3094.3
27.5°	2572.9	2567.2	2612.8	2644.1	2686.9	2741.0	2775.2	2829.3	2837.9	2829.3	2809.4
30°	2139.8	2134.1	2191.1	2231.0	2307.9	2333.5	2427.6	2478.9	2533.0	2530.1	2515.9
32.5°	1689.6	1701.0	1746.6	1803.6	1866.3	1946.0	2034.4	2148.3	2196.8	2208.2	2182.5
35°	1256.5	1273.6	1316.4	1364.8	1441.7	1530.1	1652.6	1760.8	1843.5	1843.5	1823.5
37.5°	906.1	911.8	951.7	983.0	1062.8	1142.6	1248.0	1396.1	1447.4	1467.4	1447.4
40°	618.3	618.3	641.1	675.3	740.8	809.2	906.1	1017.2	1091.3	1122.6	1088.4
42.5°	393.2	398.9	416.0	438.8	487.2	547.1	621.1	703.8	757.9	780.7	749.4
45°	236.5	242.2	256.4	273.5	304.9	341.9	393.2	453.0	498.6	518.6	504.3
47.5°	142.5	148.2	153.9	165.3	188.1	213.7	239.3	273.5	302.0	304.9	299.2
50°	82.6	82.6	88.3	96.9	108.3	122.5	136.8	156.7	165.3	176.7	165.3
52.5°	54.1	54.1	54.1	57.0	62.7	68.4	74.1	85.5	91.2	91.2	88.3
55°	39.9	39.9	39.9	39.9	42.7	42.7	42.7	45.6	48.4	48.4	48.4
57.5°	28.5	28.5	28.5	31.3	31.3	31.3	28.5	28.5	28.5	28.5	28.5
60°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	19.9	19.9	19.9
62.5°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
65°	11.4	11.4	11.4	14.2	14.2	14.2	14.2	11.4	11.4	11.4	11.4
67.5°	8.5	8.5	8.5	11.4	11.4	11.4	11.4	11.4	8.5	8.5	8.5
70°	5.7	5.7	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
72.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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°	4521.8	4521.8	4521.8	4521.8	4521.8	4521.8	4521.8	4521.8
2.5°	4533.2	4518.9	4518.9	4518.9	4513.2	4518.9	4527.5	4513.2
5°	4484.7	4490.4	4464.8	4484.7	4493.3	4479.0	4513.2	4484.7
7.5°	4442.0	4433.5	4393.6	4422.1	4439.2	4444.9	4442.0	4419.2
10°	4356.5	4336.6	4319.5	4319.5	4313.8	4310.9	4342.3	4330.9
12.5°	4202.7	4216.9	4191.3	4205.5	4194.1	4197.0	4199.8	4194.1
15°	4071.6	4057.4	4023.2	4046.0	4031.7	4017.5	4046.0	4003.2
17.5°	3866.5	3863.6	3843.7	3829.4	3835.1	3832.3	3846.5	3826.6
20°	3624.3	3630.0	3618.6	3612.9	3604.3	3584.4	3601.5	3578.7
22.5°	3362.1	3367.8	3379.2	3356.4	3359.3	3330.8	3356.4	3330.8
25°	3097.1	3094.3	3080.1	3068.7	3037.3	3006.0	3000.3	2980.3
27.5°	2806.5	2786.6	2752.4	2715.3	2666.9	2624.2	2621.3	2607.1
30°	2487.4	2444.7	2382.0	2322.2	2248.1	2182.5	2182.5	2159.7
32.5°	2151.2	2054.3	1968.8	1894.8	1797.9	1760.8	1723.8	1703.9
35°	1749.4	1664.0	1561.4	1438.9	1393.3	1302.1	1307.8	1262.2
37.5°	1370.5	1265.1	1168.2	1068.5	988.7	946.0	923.2	900.4
40°	1017.2	914.6	809.2	743.7	672.4	635.4	621.1	615.4
42.5°	695.2	609.7	541.4	487.2	450.2	410.3	398.9	393.2
45°	453.0	404.6	341.9	299.2	273.5	250.7	250.7	242.2
47.5°	270.7	239.3	208.0	179.5	162.4	148.2	142.5	139.6
50°	151.0	133.9	116.8	105.4	94.0	85.5	82.6	82.6
52.5°	82.6	74.1	68.4	59.8	54.1	54.1	54.1	51.3
55°	42.7	42.7	42.7	42.7	39.9	39.9	39.9	37.0
57.5°	28.5	28.5	31.3	31.3	31.3	28.5	28.5	28.5
60°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
62.5°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
65°	11.4	14.2	14.2	14.2	14.2	11.4	11.4	11.4
67.5°	8.5	11.4	11.4	11.4	8.5	8.5	8.5	8.5
70°	8.5	8.5	8.5	8.5	8.5	5.7	5.7	5.7
72.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8	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



Report Generated By E9808895 / USPTCWHP6082093





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









(END OF REPORT)