

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: P209358

Luminaire Tested: **LDSQ6B40D010 EU6B30508050 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209358
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: LDSQ6B40D010 EU6B30508050 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-43.02 W DE010-42.54 W D5LT-42.539 W DMX-41.87 W DL2-41.57
W DL3-44.71 W DLE-39.33 W
Light Source: HIGH LUMEN LED 5000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4265.8 lumens
Efficiency: N/A
Efficacy: 99.2 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

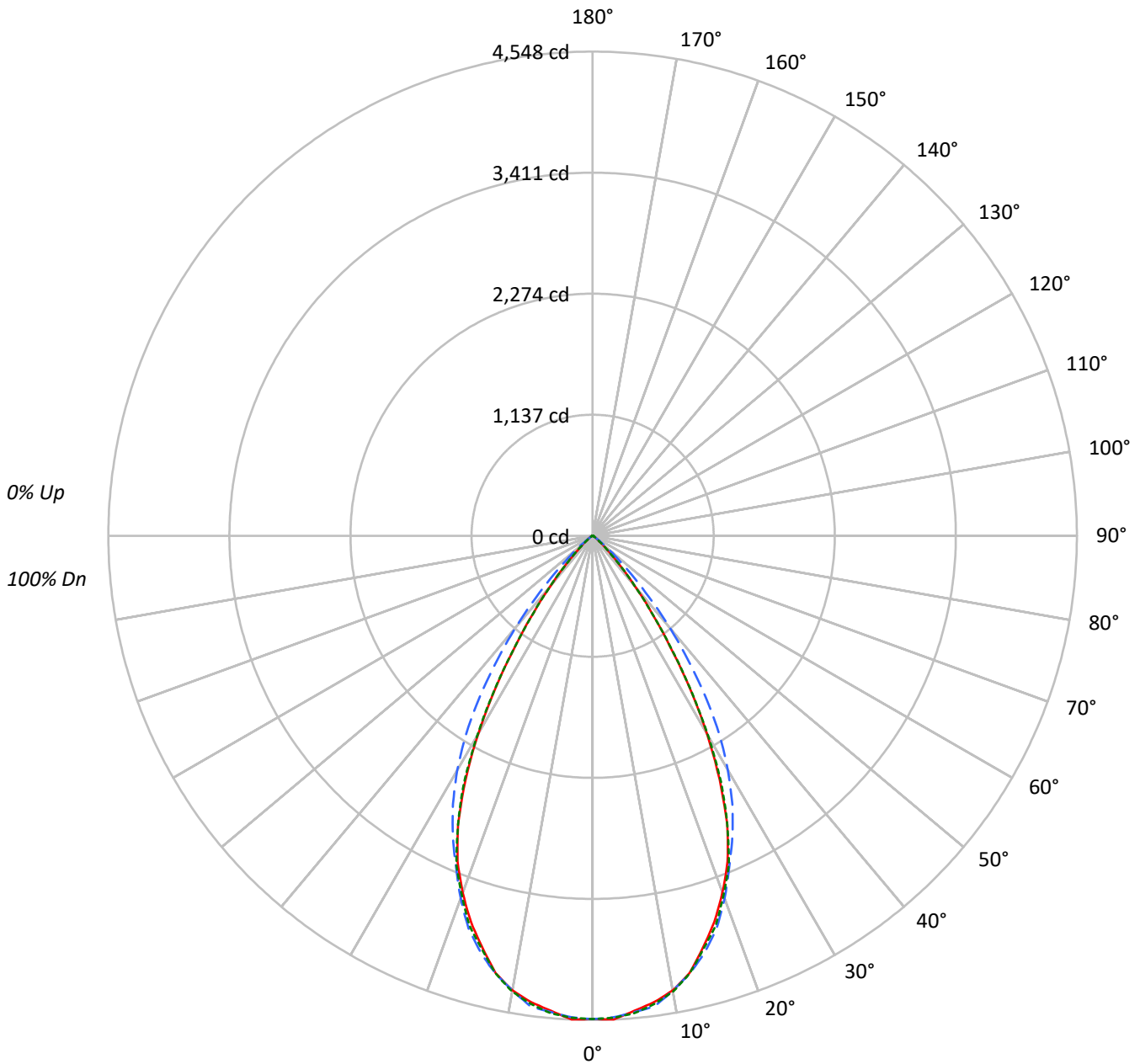
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	425.0	10.0
10°-20°	1130.5	26.5
20°-30°	1387.4	32.5
30°-40°	957.8	22.5
40°-50°	299.4	7.0
50°-60°	46.8	1.1
60°-70°	13.5	0.3
70°-80°	4.5	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°	2942.8	69.0
0°-40°	3900.6	91.4
0°-60°	4246.8	99.6
0°-90°	4265.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4265.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4539	4539	4539	4539	4539	
5°	4479	4496	4491	4492	4502	423
15°	4004	4062	4056	4050	4019	1120
25°	2989	3066	3106	3086	2992	1339
35°	1261	1492	1851	1506	1267	806
45°	237	325	521	322	243	213
55°	40	43	49	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°	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3
2.5°	4547.9	4485.0	4525.0	4516.4	4539.3	4553.6	4539.3	4565.1	4547.9	4527.9	4533.6
5°	4479.2	4487.8	4485.0	4490.7	4496.4	4496.4	4525.0	4527.9	4533.6	4490.7	4502.1
7.5°	4419.2	4419.2	4433.5	4427.8	4447.8	4442.1	4444.9	4467.8	4470.7	4459.2	4450.6
10°	4336.2	4324.8	4310.5	4310.5	4336.2	4339.1	4362.0	4364.8	4382.0	4336.2	4341.9
12.5°	4207.5	4201.8	4178.9	4190.4	4210.4	4198.9	4236.1	4239.0	4233.3	4213.2	4224.7
15°	4004.4	4027.3	4021.6	4018.7	4064.5	4058.8	4055.9	4064.5	4067.4	4055.9	4047.3
17.5°	3801.4	3821.4	3824.2	3830.0	3838.5	3847.1	3858.6	3890.0	3878.6	3870.0	3898.6
20°	3566.8	3558.2	3581.1	3604.0	3612.6	3612.6	3629.7	3652.6	3635.5	3624.0	3626.9
22.5°	3312.2	3326.5	3315.1	3338.0	3349.4	3363.7	3380.9	3400.9	3386.6	3355.1	3392.3
25°	2989.0	2997.6	3034.8	3031.9	3049.1	3083.4	3109.2	3109.2	3109.2	3106.3	3106.3
27.5°	2582.9	2577.1	2622.9	2654.4	2697.3	2751.6	2785.9	2840.3	2848.9	2840.3	2820.3
30°	2148.1	2142.4	2199.6	2239.6	2316.9	2342.6	2437.0	2488.5	2542.8	2540.0	2525.7
32.5°	1696.2	1707.6	1753.4	1810.6	1873.5	1953.6	2042.3	2156.7	2205.3	2216.7	2191.0
35°	1261.4	1278.6	1321.5	1370.1	1447.3	1536.0	1659.0	1767.7	1850.6	1850.6	1830.6
37.5°	909.6	915.3	955.3	986.8	1066.9	1147.0	1252.8	1401.6	1453.0	1473.1	1453.0
40°	620.7	620.7	643.6	677.9	743.7	812.3	909.6	1021.1	1095.5	1127.0	1092.6
42.5°	394.7	400.4	417.6	440.5	489.1	549.2	623.5	706.5	760.8	783.7	752.3
45°	237.4	243.1	257.4	274.6	306.1	343.2	394.7	454.8	500.6	520.6	506.3
47.5°	143.0	148.7	154.5	165.9	188.8	214.5	240.3	274.6	303.2	306.1	300.3
50°	82.9	82.9	88.7	97.3	108.7	123.0	137.3	157.3	165.9	177.3	165.9
52.5°	54.3	54.3	54.3	57.2	62.9	68.6	74.4	85.8	91.5	91.5	88.7
55°	40.0	40.0	40.0	40.0	42.9	42.9	42.9	45.8	48.6	48.6	48.6
57.5°	28.6	28.6	28.6	31.5	31.5	31.5	28.6	28.6	28.6	28.6	28.6
60°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	20.0	20.0	20.0
62.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
65°	11.4	11.4	11.4	14.3	14.3	14.3	14.3	11.4	11.4	11.4	11.4
67.5°	8.6	8.6	8.6	11.4	11.4	11.4	11.4	11.4	8.6	8.6	8.6
70°	5.7	5.7	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
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°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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°	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3
2.5°	4550.8	4536.5	4536.5	4536.5	4530.7	4536.5	4545.0	4530.7
5°	4502.1	4507.8	4482.1	4502.1	4510.7	4496.4	4530.7	4502.1
7.5°	4459.2	4450.6	4410.6	4439.2	4456.4	4462.1	4459.2	4436.3
10°	4373.4	4353.4	4336.2	4336.2	4330.5	4327.6	4359.1	4347.7
12.5°	4219.0	4233.3	4207.5	4221.8	4210.4	4213.2	4216.1	4210.4
15°	4087.4	4073.1	4038.8	4061.6	4047.3	4033.0	4061.6	4018.7
17.5°	3881.4	3878.6	3858.6	3844.3	3850.0	3847.1	3861.4	3841.4
20°	3638.3	3644.0	3632.6	3626.9	3618.3	3598.3	3615.4	3592.5
22.5°	3375.2	3380.9	3392.3	3369.4	3372.3	3343.7	3369.4	3343.7
25°	3109.2	3106.3	3092.0	3080.6	3049.1	3017.6	3011.9	2991.9
27.5°	2817.4	2797.4	2763.1	2725.9	2677.2	2634.3	2631.5	2617.2
30°	2497.0	2454.1	2391.2	2331.2	2256.8	2191.0	2191.0	2168.1
32.5°	2159.5	2062.3	1976.5	1902.1	1804.9	1767.7	1730.5	1710.5
35°	1756.2	1670.4	1567.4	1444.5	1398.7	1307.2	1312.9	1267.1
37.5°	1375.8	1270.0	1172.7	1072.6	992.5	949.6	926.7	903.9
40°	1021.1	918.2	812.3	746.5	675.0	637.8	623.5	617.8
42.5°	697.9	612.1	543.5	489.1	451.9	411.9	400.4	394.7
45°	454.8	406.2	343.2	300.3	274.6	251.7	251.7	243.1
47.5°	271.7	240.3	208.8	180.2	163.0	148.7	143.0	140.2
50°	151.6	134.4	117.3	105.8	94.4	85.8	82.9	82.9
52.5°	82.9	74.4	68.6	60.1	54.3	54.3	54.3	51.5
55°	42.9	42.9	42.9	42.9	40.0	40.0	40.0	37.2
57.5°	28.6	28.6	31.5	31.5	31.5	28.6	28.6	28.6
60°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
62.5°	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
65°	11.4	14.3	14.3	14.3	14.3	11.4	11.4	11.4
67.5°	8.6	11.4	11.4	11.4	8.6	8.6	8.6	8.6
70°	8.6	8.6	8.6	8.6	8.6	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°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	2.9	2.9	2.9	2.9	2.9	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)