

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: P209374

Luminaire Tested: **LDSQ6B50D010 EU6B30509030 6LBSQ1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P209374  
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: LDSQ6B50D010 EU6B30509030 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 3000 K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4490.8 lumens  
Efficiency: N/A  
Efficacy: 76.4 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

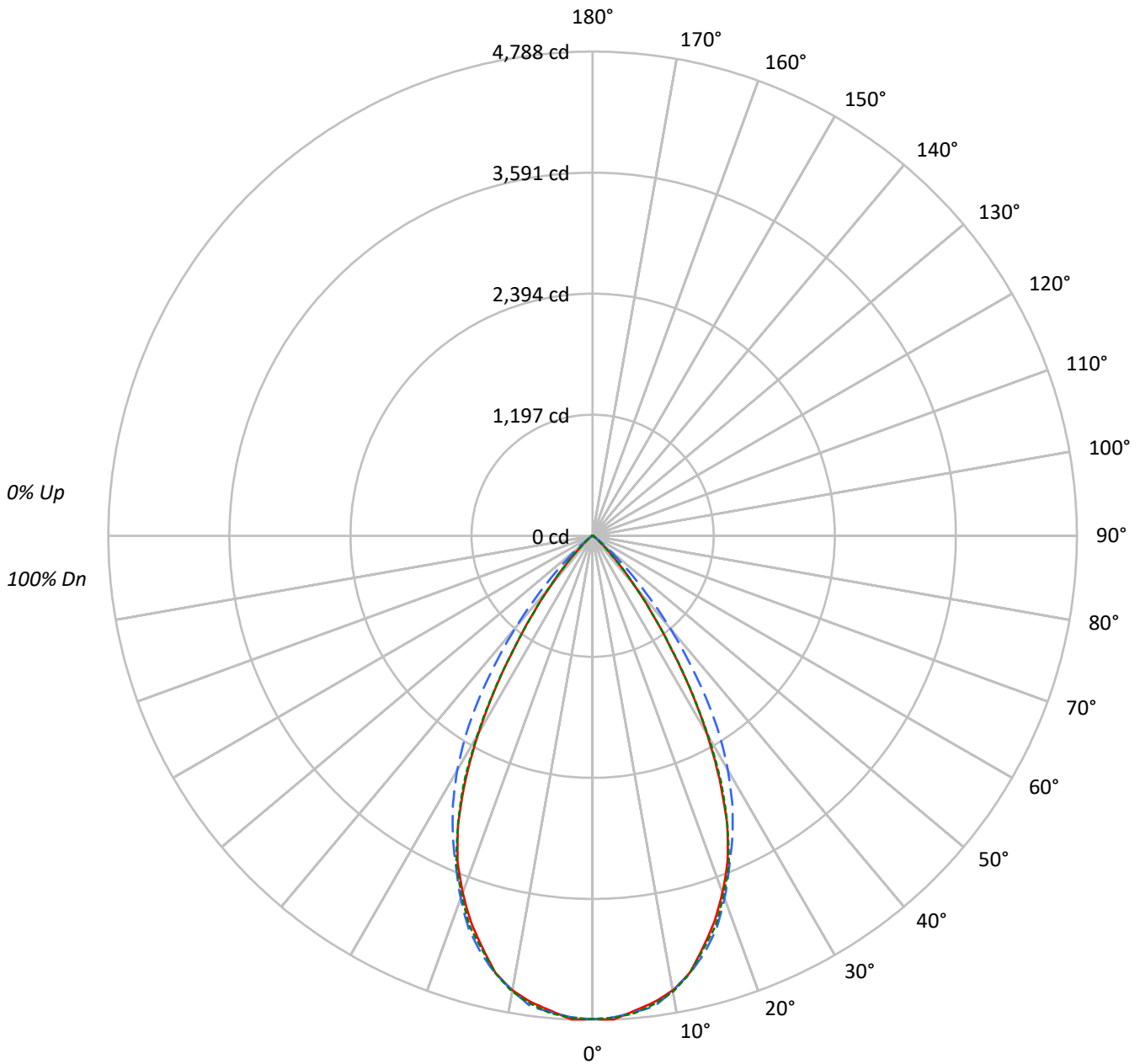
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	447.4	10.0
10°-20°	1190.1	26.5
20°-30°	1460.6	32.5
30°-40°	1008.3	22.5
40°-50°	315.2	7.0
50°-60°	49.2	1.1
60°-70°	14.2	0.3
70°-80°	4.7	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°	3098.1	69.0
0°-40°	4106.4	91.4
0°-60°	4470.9	99.6
0°-90°	4490.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4490.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4779	4779	4779	4779	4779	
5°	4716	4734	4728	4729	4740	446
15°	4216	4276	4270	4264	4231	1179
25°	3147	3228	3270	3249	3150	1410
35°	1328	1570	1948	1585	1334	848
45°	250	342	548	339	256	224
55°	42	45	51	45	39	41
65°	12	15	12	15	12	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°	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8
2.5°	4787.9	4721.6	4763.8	4754.7	4778.8	4793.9	4778.8	4805.9	4787.9	4766.8	4772.8
5°	4715.6	4724.6	4721.6	4727.6	4733.7	4733.7	4763.8	4766.8	4772.8	4727.6	4739.7
7.5°	4652.4	4652.4	4667.4	4661.4	4682.5	4676.5	4679.5	4703.6	4706.6	4694.5	4685.5
10°	4565.0	4553.0	4537.9	4537.9	4565.0	4568.0	4592.1	4595.2	4613.2	4565.0	4571.1
12.5°	4429.5	4423.5	4399.4	4411.5	4432.5	4420.5	4459.6	4462.7	4456.6	4435.6	4447.6
15°	4215.7	4239.8	4233.8	4230.8	4279.0	4272.9	4269.9	4279.0	4282.0	4269.9	4260.9
17.5°	4001.9	4023.0	4026.0	4032.0	4041.1	4050.1	4062.2	4095.3	4083.2	4074.2	4104.3
20°	3755.0	3746.0	3770.1	3794.2	3803.2	3803.2	3821.3	3845.4	3827.3	3815.2	3818.3
22.5°	3487.0	3502.1	3490.0	3514.1	3526.2	3541.2	3559.3	3580.4	3565.3	3532.2	3571.3
25°	3146.7	3155.8	3194.9	3191.9	3210.0	3246.1	3273.2	3273.2	3273.2	3270.2	3270.2
27.5°	2719.1	2713.1	2761.3	2794.4	2839.6	2896.8	2932.9	2990.2	2999.2	2990.2	2969.1
30°	2261.4	2255.4	2315.6	2357.8	2439.1	2466.2	2565.6	2619.8	2677.0	2674.0	2658.9
32.5°	1785.7	1797.7	1845.9	1906.1	1972.4	2056.7	2150.0	2270.5	2321.7	2333.7	2306.6
35°	1328.0	1346.0	1391.2	1442.4	1523.7	1617.0	1746.5	1860.9	1948.3	1948.3	1927.2
37.5°	957.6	963.6	1005.8	1038.9	1123.2	1207.5	1318.9	1475.5	1529.7	1550.8	1529.7
40°	653.4	653.4	677.5	713.7	782.9	855.2	957.6	1075.0	1153.3	1186.4	1150.3
42.5°	415.6	421.6	439.6	463.7	514.9	578.2	656.5	743.8	801.0	825.1	792.0
45°	249.9	256.0	271.0	289.1	322.2	361.3	415.6	478.8	527.0	548.0	533.0
47.5°	150.6	156.6	162.6	174.7	198.7	225.8	252.9	289.1	319.2	322.2	316.2
50°	87.3	87.3	93.3	102.4	114.4	129.5	144.5	165.6	174.7	186.7	174.7
52.5°	57.2	57.2	57.2	60.2	66.2	72.3	78.3	90.3	96.4	96.4	93.3
55°	42.2	42.2	42.2	42.2	45.2	45.2	45.2	48.2	51.2	51.2	51.2
57.5°	30.1	30.1	30.1	33.1	33.1	33.1	30.1	30.1	30.1	30.1	30.1
60°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	21.1	21.1	21.1
62.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
65°	12.0	12.0	12.0	15.1	15.1	15.1	15.1	12.0	12.0	12.0	12.0
67.5°	9.0	9.0	9.0	12.0	12.0	12.0	12.0	12.0	9.0	9.0	9.0
70°	6.0	6.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
72.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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°	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8	4778.8
2.5°	4790.9	4775.8	4775.8	4775.8	4769.8	4775.8	4784.9	4769.8
5°	4739.7	4745.7	4718.6	4739.7	4748.7	4733.7	4769.8	4739.7
7.5°	4694.5	4685.5	4643.3	4673.4	4691.5	4697.5	4694.5	4670.4
10°	4604.2	4583.1	4565.0	4565.0	4559.0	4556.0	4589.1	4577.1
12.5°	4441.6	4456.6	4429.5	4444.6	4432.5	4435.6	4438.6	4432.5
15°	4303.1	4288.0	4251.9	4276.0	4260.9	4245.8	4276.0	4230.8
17.5°	4086.3	4083.2	4062.2	4047.1	4053.1	4050.1	4065.2	4044.1
20°	3830.3	3836.3	3824.3	3818.3	3809.2	3788.1	3806.2	3782.1
22.5°	3553.3	3559.3	3571.3	3547.2	3550.3	3520.1	3547.2	3520.1
25°	3273.2	3270.2	3255.1	3243.1	3210.0	3176.9	3170.8	3149.8
27.5°	2966.1	2945.0	2908.9	2869.7	2818.5	2773.4	2770.3	2755.3
30°	2628.8	2583.6	2517.4	2454.2	2375.9	2306.6	2306.6	2282.5
32.5°	2273.5	2171.1	2080.8	2002.5	1900.1	1860.9	1821.8	1800.7
35°	1848.9	1758.6	1650.2	1520.7	1472.5	1376.1	1382.2	1334.0
37.5°	1448.4	1337.0	1234.6	1129.2	1044.9	999.7	975.6	951.6
40°	1075.0	966.6	855.2	785.9	710.7	671.5	656.5	650.4
42.5°	734.7	644.4	572.1	514.9	475.8	433.6	421.6	415.6
45°	478.8	427.6	361.3	316.2	289.1	265.0	265.0	256.0
47.5°	286.1	252.9	219.8	189.7	171.6	156.6	150.6	147.6
50°	159.6	141.5	123.5	111.4	99.4	90.3	87.3	87.3
52.5°	87.3	78.3	72.3	63.2	57.2	57.2	57.2	54.2
55°	45.2	45.2	45.2	45.2	42.2	42.2	42.2	39.1
57.5°	30.1	30.1	33.1	33.1	33.1	30.1	30.1	30.1
60°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
62.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
65°	12.0	15.1	15.1	15.1	15.1	12.0	12.0	12.0
67.5°	9.0	12.0	12.0	12.0	9.0	9.0	9.0	9.0
70°	9.0	9.0	9.0	9.0	9.0	6.0	6.0	6.0
72.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0	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)