

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: P209392

Luminaire Tested: **LDSQ6B60D010 EU6B60709730 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209392
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 EU6B60709730 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: 4441.0 lumens
Efficiency: N/A
Efficacy: 71.1 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

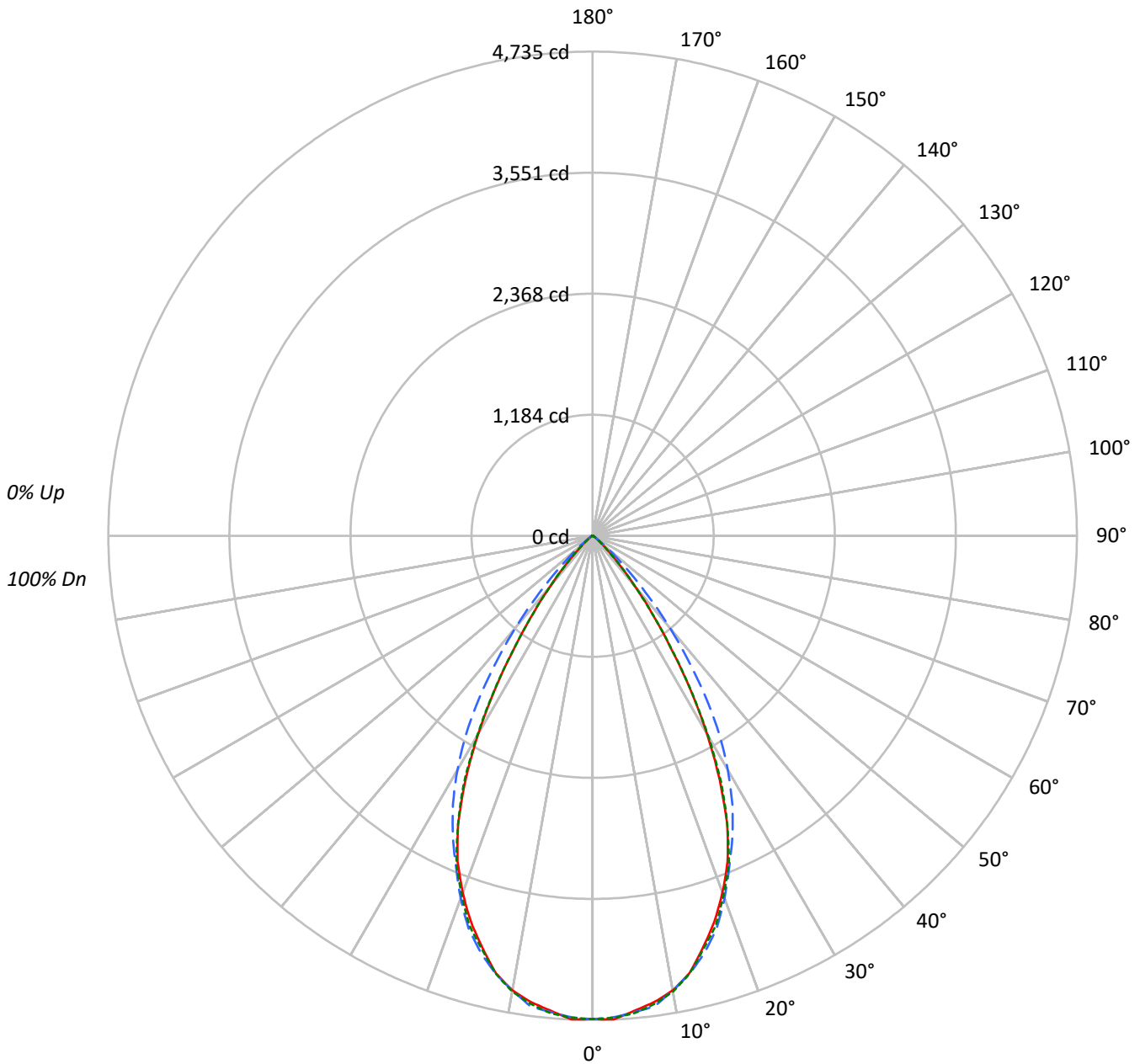
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	442.4	10.0
10°-20°	1176.9	26.5
20°-30°	1444.4	32.5
30°-40°	997.1	22.5
40°-50°	311.7	7.0
50°-60°	48.7	1.1
60°-70°	14.1	0.3
70°-80°	4.6	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°	3063.7	69.0
0°-40°	4060.8	91.4
0°-60°	4421.3	99.6
0°-90°	4441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4726	4726	4726	4726	4726	
5°	4663	4681	4675	4677	4687	441
15°	4169	4228	4223	4217	4184	1166
25°	3112	3192	3234	3213	3115	1394
35°	1313	1553	1927	1568	1319	839
45°	247	338	542	335	253	221
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°	4725.8	4725.8	4725.8	4725.8	4725.8	4725.8	4725.8	4725.8	4725.8	4725.8	4725.8
2.5°	4734.7	4669.2	4710.9	4702.0	4725.8	4740.7	4725.8	4752.6	4734.7	4713.9	4719.9
5°	4663.3	4672.2	4669.2	4675.2	4681.1	4681.1	4710.9	4713.9	4719.9	4675.2	4687.1
7.5°	4600.7	4600.7	4615.6	4609.7	4630.5	4624.6	4627.5	4651.4	4654.3	4642.4	4633.5
10°	4514.4	4502.5	4487.6	4487.6	4514.4	4517.4	4541.2	4544.2	4562.0	4514.4	4520.3
12.5°	4380.4	4374.4	4350.6	4362.5	4383.4	4371.5	4410.2	4413.1	4407.2	4386.3	4398.3
15°	4169.0	4192.8	4186.8	4183.8	4231.5	4225.5	4222.6	4231.5	4234.5	4222.6	4213.6
17.5°	3957.5	3978.4	3981.4	3987.3	3996.2	4005.2	4017.1	4049.8	4037.9	4029.0	4058.8
20°	3713.4	3704.4	3728.2	3752.1	3761.0	3761.0	3778.9	3802.7	3784.8	3772.9	3775.9
22.5°	3448.3	3463.2	3451.3	3475.1	3487.0	3501.9	3519.8	3540.6	3525.7	3493.0	3531.7
25°	3111.8	3120.8	3159.5	3156.5	3174.4	3210.1	3236.9	3236.9	3236.9	3233.9	3233.9
27.5°	2689.0	2683.0	2730.7	2763.4	2808.1	2864.7	2900.4	2957.0	2965.9	2957.0	2936.1
30°	2236.3	2230.4	2289.9	2331.6	2412.0	2438.8	2537.1	2590.7	2647.3	2644.3	2629.4
32.5°	1765.9	1777.8	1825.4	1885.0	1950.5	2033.9	2126.2	2245.3	2295.9	2307.8	2281.0
35°	1313.2	1331.1	1375.8	1426.4	1506.8	1599.1	1727.1	1840.3	1926.7	1926.7	1905.8
37.5°	946.9	952.9	994.6	1027.4	1110.7	1194.1	1304.3	1459.1	1512.7	1533.6	1512.7
40°	646.2	646.2	670.0	705.7	774.2	845.7	946.9	1063.1	1140.5	1173.3	1137.5
42.5°	410.9	416.9	434.8	458.6	509.2	571.7	649.2	735.5	792.1	815.9	783.2
45°	247.2	253.1	268.0	285.9	318.6	357.3	410.9	473.5	521.1	542.0	527.1
47.5°	148.9	154.8	160.8	172.7	196.5	223.3	250.1	285.9	315.6	318.6	312.7
50°	86.4	86.4	92.3	101.2	113.2	128.0	142.9	163.8	172.7	184.6	172.7
52.5°	56.6	56.6	56.6	59.6	65.5	71.5	77.4	89.3	95.3	95.3	92.3
55°	41.7	41.7	41.7	41.7	44.7	44.7	44.7	47.6	50.6	50.6	50.6
57.5°	29.8	29.8	29.8	32.8	32.8	32.8	29.8	29.8	29.8	29.8	29.8
60°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	20.8	20.8	20.8
62.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
65°	11.9	11.9	11.9	14.9	14.9	14.9	14.9	11.9	11.9	11.9	11.9
67.5°	8.9	8.9	8.9	11.9	11.9	11.9	11.9	11.9	8.9	8.9	8.9
70°	6.0	6.0	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
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°	4725.8	4725.8	4725.8	4725.8	4725.8	4725.8	4725.8	4725.8
2.5°	4737.7	4722.8	4722.8	4722.8	4716.9	4722.8	4731.8	4716.9
5°	4687.1	4693.1	4666.3	4687.1	4696.0	4681.1	4716.9	4687.1
7.5°	4642.4	4633.5	4591.8	4621.6	4639.5	4645.4	4642.4	4618.6
10°	4553.1	4532.3	4514.4	4514.4	4508.4	4505.5	4538.2	4526.3
12.5°	4392.3	4407.2	4380.4	4395.3	4383.4	4386.3	4389.3	4383.4
15°	4255.3	4240.4	4204.7	4228.5	4213.6	4198.7	4228.5	4183.8
17.5°	4040.9	4037.9	4017.1	4002.2	4008.2	4005.2	4020.1	3999.2
20°	3787.8	3793.8	3781.8	3775.9	3767.0	3746.1	3764.0	3740.2
22.5°	3513.8	3519.8	3531.7	3507.9	3510.9	3481.1	3507.9	3481.1
25°	3236.9	3233.9	3219.0	3207.1	3174.4	3141.6	3135.7	3114.8
27.5°	2933.2	2912.3	2876.6	2837.9	2787.2	2742.6	2739.6	2724.7
30°	2599.6	2555.0	2489.5	2426.9	2349.5	2281.0	2281.0	2257.2
32.5°	2248.3	2147.0	2057.7	1980.3	1879.0	1840.3	1801.6	1780.7
35°	1828.4	1739.1	1631.8	1503.8	1456.2	1360.9	1366.8	1319.2
37.5°	1432.3	1322.2	1220.9	1116.7	1033.3	988.6	964.8	941.0
40°	1063.1	955.9	845.7	777.2	702.8	664.1	649.2	643.2
42.5°	726.6	637.3	565.8	509.2	470.5	428.8	416.9	410.9
45°	473.5	422.9	357.3	312.7	285.9	262.0	262.0	253.1
47.5°	282.9	250.1	217.4	187.6	169.7	154.8	148.9	145.9
50°	157.8	140.0	122.1	110.2	98.3	89.3	86.4	86.4
52.5°	86.4	77.4	71.5	62.5	56.6	56.6	56.6	53.6
55°	44.7	44.7	44.7	44.7	41.7	41.7	41.7	38.7
57.5°	29.8	29.8	32.8	32.8	32.8	29.8	29.8	29.8
60°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
62.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
65°	11.9	14.9	14.9	14.9	14.9	11.9	11.9	11.9
67.5°	8.9	11.9	11.9	11.9	8.9	8.9	8.9	8.9
70°	8.9	8.9	8.9	8.9	8.9	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



Report Generated By E9808895 / USPTCWHP6082093





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









(END OF REPORT)