

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: P209315

Luminaire Tested: **LDSQ6B10D010 EU6B10209727 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209315
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: LDSQ6B10D010 EU6B10209727 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-10.05 W DE010-10.58 W D5LT-10.2 W DMX-10.6 W DL2-11.8 W
DL3-11.1 W DLE-11.39 W
Light Source: HIGH LUMEN LED 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 750.9 lumens
Efficiency: N/A
Efficacy: 74.7 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

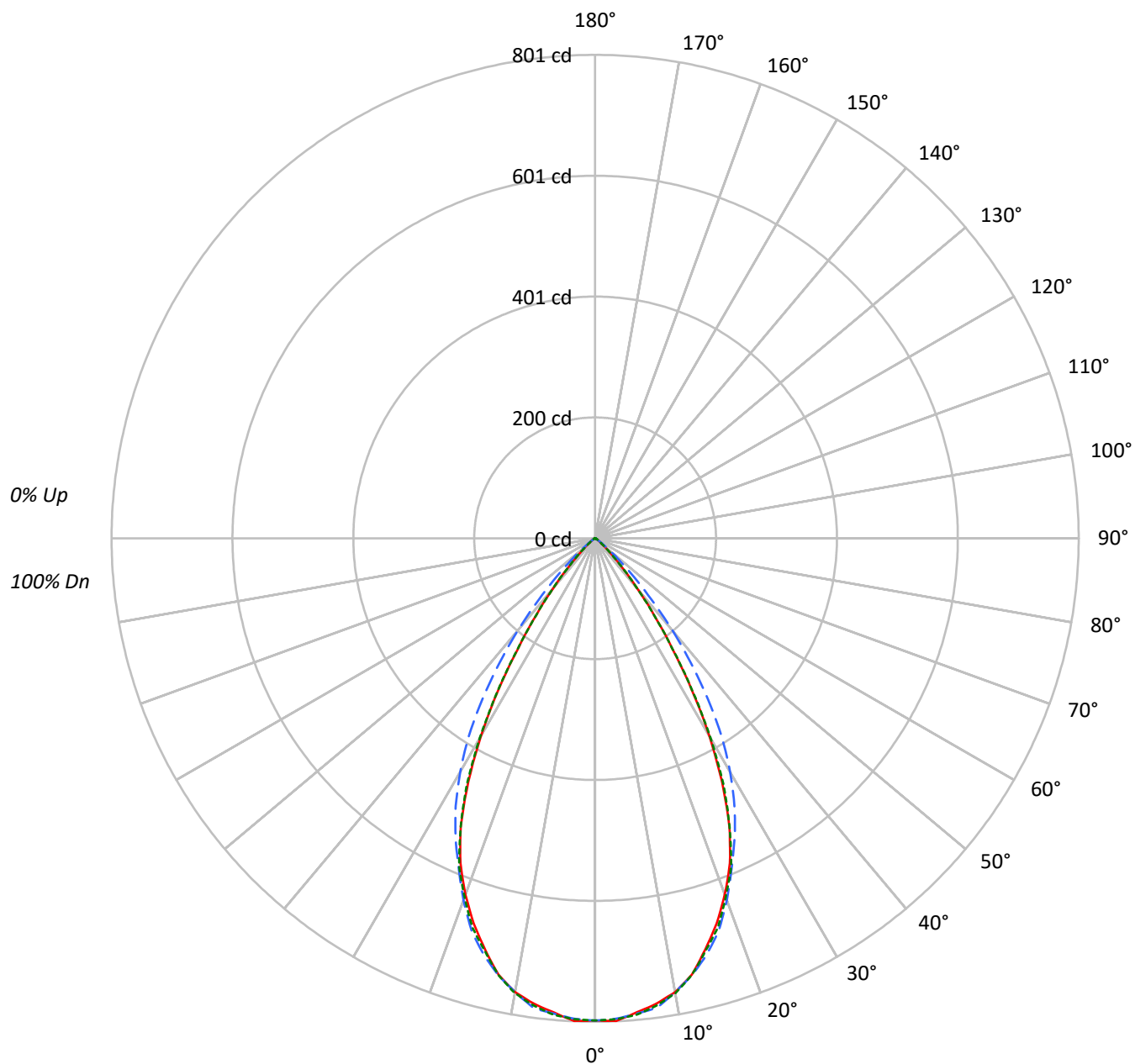
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10				0
RW	70	50	30	10	70	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	82	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°	74.8	10.0
10°-20°	199.0	26.5
20°-30°	244.2	32.5
30°-40°	168.6	22.5
40°-50°	52.7	7.0
50°-60°	8.2	1.1
60°-70°	2.4	0.3
70°-80°	0.8	0.1
80°-90°	0.2	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°	518.0	69.0
0°-40°	686.6	91.4
0°-60°	747.5	99.6
0°-90°	750.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	750.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	788	792	790	791	792	75
15°	705	715	714	713	707	197
25°	526	540	547	543	527	236
35°	222	263	326	265	223	142
45°	42	57	92	57	43	37
55°	7	8	9	8	6	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
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°	799.0	799.0	799.0	799.0	799.0	799.0	799.0	799.0	799.0	799.0	799.0
2.5°	800.6	789.5	796.5	795.0	799.0	801.6	799.0	803.6	800.6	797.0	798.0
5°	788.5	790.0	789.5	790.5	791.5	791.5	796.5	797.0	798.0	790.5	792.5
7.5°	777.9	777.9	780.4	779.4	782.9	781.9	782.4	786.5	787.0	784.9	783.4
10°	763.3	761.3	758.8	758.8	763.3	763.8	767.8	768.3	771.4	763.3	764.3
12.5°	740.6	739.6	735.6	737.6	741.1	739.1	745.7	746.2	745.2	741.6	743.7
15°	704.9	708.9	707.9	707.4	715.5	714.5	714.0	715.5	716.0	714.0	712.4
17.5°	669.1	672.7	673.2	674.2	675.7	677.2	679.2	684.8	682.7	681.2	686.3
20°	627.9	626.3	630.4	634.4	635.9	635.9	638.9	643.0	639.9	637.9	638.4
22.5°	583.0	585.6	583.5	587.6	589.6	592.1	595.1	598.7	596.1	590.6	597.1
25°	526.2	527.7	534.2	533.7	536.7	542.8	547.3	547.3	547.3	546.8	546.8
27.5°	454.7	453.6	461.7	467.2	474.8	484.4	490.4	500.0	501.5	500.0	496.4
30°	378.1	377.1	387.2	394.2	407.8	412.4	429.0	438.0	447.6	447.1	444.6
32.5°	298.6	300.6	308.6	318.7	329.8	343.9	359.5	379.6	388.2	390.2	385.7
35°	222.0	225.1	232.6	241.2	254.8	270.4	292.0	311.2	325.8	325.8	322.2
37.5°	160.1	161.1	168.2	173.7	187.8	201.9	220.5	246.7	255.8	259.3	255.8
40°	109.3	109.3	113.3	119.3	130.9	143.0	160.1	179.7	192.8	198.4	192.3
42.5°	69.5	70.5	73.5	77.5	86.1	96.7	109.8	124.4	133.9	138.0	132.4
45°	41.8	42.8	45.3	48.3	53.9	60.4	69.5	80.1	88.1	91.6	89.1
47.5°	25.2	26.2	27.2	29.2	33.2	37.8	42.3	48.3	53.4	53.9	52.9
50°	14.6	14.6	15.6	17.1	19.1	21.7	24.2	27.7	29.2	31.2	29.2
52.5°	9.6	9.6	9.6	10.1	11.1	12.1	13.1	15.1	16.1	16.1	15.6
55°	7.0	7.0	7.0	7.0	7.6	7.6	7.6	8.1	8.6	8.6	8.6
57.5°	5.0	5.0	5.0	5.5	5.5	5.5	5.0	5.0	5.0	5.0	5.0
60°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	3.5
62.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
65°	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.0	2.0	2.0	2.0
67.5°	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5
70°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	799.0	799.0	799.0	799.0	799.0	799.0	799.0	799.0
2.5°	801.1	798.5	798.5	798.5	797.5	798.5	800.1	797.5
5°	792.5	793.5	789.0	792.5	794.0	791.5	797.5	792.5
7.5°	784.9	783.4	776.4	781.4	784.4	785.5	784.9	780.9
10°	769.8	766.3	763.3	763.3	762.3	761.8	767.3	765.3
12.5°	742.7	745.2	740.6	743.2	741.1	741.6	742.2	741.1
15°	719.5	717.0	710.9	715.0	712.4	709.9	715.0	707.4
17.5°	683.2	682.7	679.2	676.7	677.7	677.2	679.7	676.2
20°	640.4	641.5	639.4	638.4	636.9	633.4	636.4	632.4
22.5°	594.1	595.1	597.1	593.1	593.6	588.6	593.1	588.6
25°	547.3	546.8	544.3	542.3	536.7	531.2	530.2	526.7
27.5°	495.9	492.4	486.4	479.8	471.3	463.7	463.2	460.7
30°	439.6	432.0	420.9	410.3	397.3	385.7	385.7	381.6
32.5°	380.1	363.0	347.9	334.8	317.7	311.2	304.6	301.1
35°	309.1	294.0	275.9	254.3	246.2	230.1	231.1	223.0
37.5°	242.2	223.6	206.4	188.8	174.7	167.2	163.1	159.1
40°	179.7	161.6	143.0	131.4	118.8	112.3	109.8	108.8
42.5°	122.9	107.7	95.7	86.1	79.6	72.5	70.5	69.5
45°	80.1	71.5	60.4	52.9	48.3	44.3	44.3	42.8
47.5°	47.8	42.3	36.8	31.7	28.7	26.2	25.2	24.7
50°	26.7	23.7	20.6	18.6	16.6	15.1	14.6	14.6
52.5°	14.6	13.1	12.1	10.6	9.6	9.6	9.6	9.1
55°	7.6	7.6	7.6	7.6	7.0	7.0	7.0	6.5
57.5°	5.0	5.0	5.5	5.5	5.5	5.0	5.0	5.0
60°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
62.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
65°	2.0	2.5	2.5	2.5	2.5	2.0	2.0	2.0
67.5°	1.5	2.0	2.0	2.0	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	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)