

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: P209309

Luminaire Tested: **LDSQ6B10D010 EU6B10209024 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209309
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 EU6B10209024 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 2400 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 759.5 lumens
Efficiency: N/A
Efficacy: 75.6 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

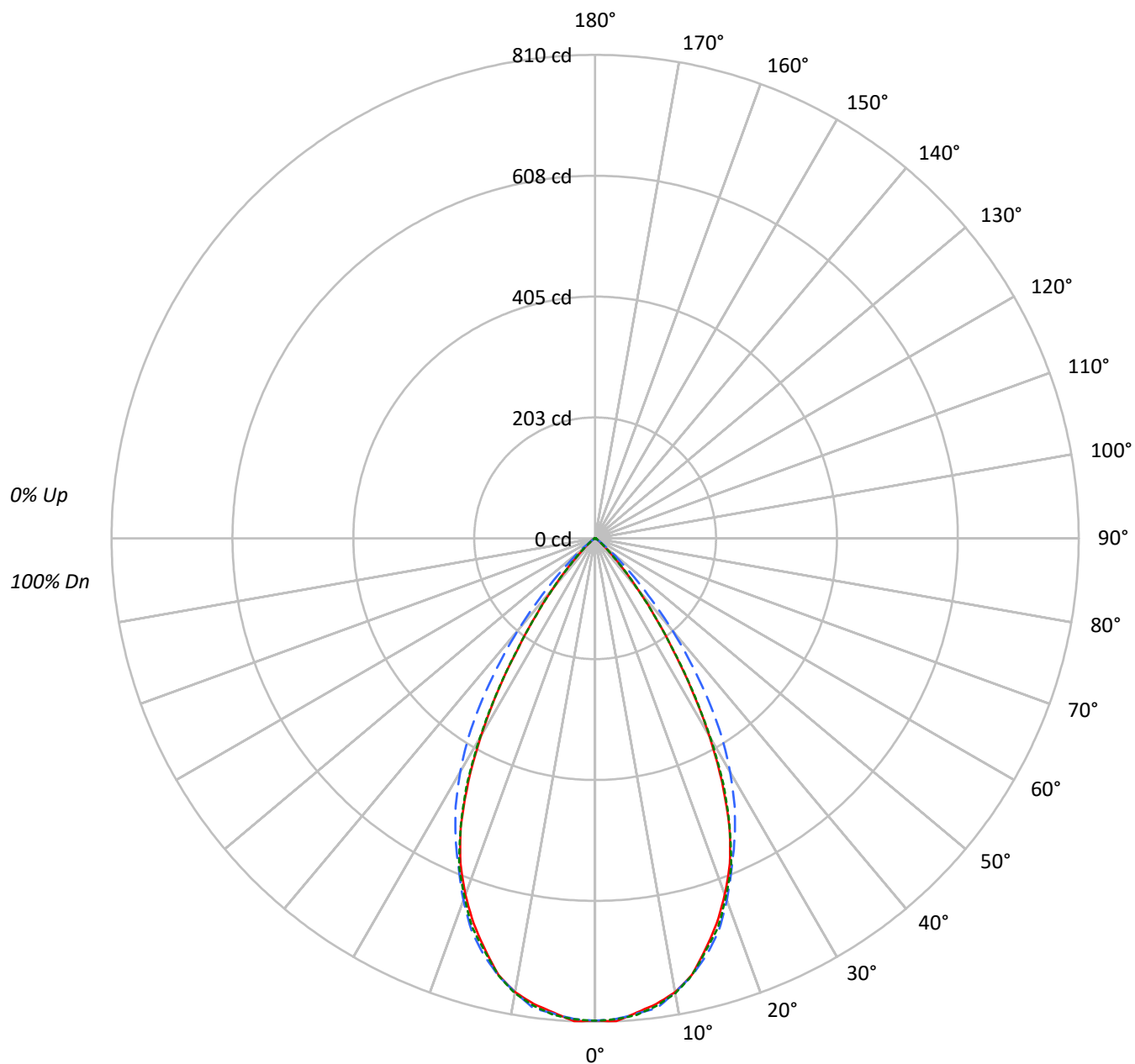
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	75.7	10.0
10°-20°	201.3	26.5
20°-30°	247.0	32.5
30°-40°	170.5	22.5
40°-50°	53.3	7.0
50°-60°	8.3	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°	524.0	69.0
0°-40°	694.5	91.4
0°-60°	756.2	99.6
0°-90°	759.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	798	801	800	800	802	75
15°	713	723	722	721	716	199
25°	532	546	553	550	533	238
35°	225	266	330	268	226	143
45°	42	58	93	57	43	38
55°	7	8	9	8	7	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°	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3
2.5°	809.8	798.6	805.7	804.2	808.3	810.8	808.3	812.8	809.8	806.2	807.2
5°	797.6	799.1	798.6	799.6	800.6	800.6	805.7	806.2	807.2	799.6	801.6
7.5°	786.9	786.9	789.4	788.4	792.0	790.9	791.5	795.5	796.0	794.0	792.5
10°	772.1	770.1	767.5	767.5	772.1	772.6	776.7	777.2	780.2	772.1	773.1
12.5°	749.2	748.2	744.1	746.1	749.7	747.7	754.3	754.8	753.8	750.2	752.2
15°	713.0	717.1	716.1	715.6	723.7	722.7	722.2	723.7	724.2	722.2	720.7
17.5°	676.9	680.4	680.9	682.0	683.5	685.0	687.0	692.6	690.6	689.1	694.2
20°	635.1	633.6	637.6	641.7	643.2	643.2	646.3	650.4	647.3	645.3	645.8
22.5°	589.8	592.3	590.3	594.4	596.4	598.9	602.0	605.6	603.0	597.4	604.0
25°	532.2	533.7	540.4	539.9	542.9	549.0	553.6	553.6	553.6	553.1	553.1
27.5°	459.9	458.9	467.0	472.6	480.3	489.9	496.1	505.7	507.3	505.7	502.2
30°	382.5	381.5	391.7	398.8	412.5	417.1	433.9	443.1	452.8	452.3	449.7
32.5°	302.0	304.1	312.2	322.4	333.6	347.9	363.6	384.0	392.7	394.7	390.1
35°	224.6	227.7	235.3	244.0	257.7	273.5	295.4	314.7	329.5	329.5	326.0
37.5°	162.0	163.0	170.1	175.7	190.0	204.2	223.1	249.6	258.7	262.3	258.7
40°	110.5	110.5	114.6	120.7	132.4	144.6	162.0	181.8	195.1	200.7	194.6
42.5°	70.3	71.3	74.4	78.4	87.1	97.8	111.0	125.8	135.5	139.5	133.9
45°	42.3	43.3	45.8	48.9	54.5	61.1	70.3	81.0	89.1	92.7	90.1
47.5°	25.5	26.5	27.5	29.5	33.6	38.2	42.8	48.9	54.0	54.5	53.5
50°	14.8	14.8	15.8	17.3	19.4	21.9	24.4	28.0	29.5	31.6	29.5
52.5°	9.7	9.7	9.7	10.2	11.2	12.2	13.2	15.3	16.3	16.3	15.8
55°	7.1	7.1	7.1	7.1	7.6	7.6	7.6	8.1	8.7	8.7	8.7
57.5°	5.1	5.1	5.1	5.6	5.6	5.6	5.1	5.1	5.1	5.1	5.1
60°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.6	3.6	3.6
62.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	808.3	808.3	808.3	808.3	808.3	808.3	808.3	808.3
2.5°	810.3	807.7	807.7	807.7	806.7	807.7	809.3	806.7
5°	801.6	802.7	798.1	801.6	803.2	800.6	806.7	801.6
7.5°	794.0	792.5	785.3	790.4	793.5	794.5	794.0	789.9
10°	778.7	775.2	772.1	772.1	771.1	770.6	776.2	774.1
12.5°	751.2	753.8	749.2	751.7	749.7	750.2	750.7	749.7
15°	727.8	725.2	719.1	723.2	720.7	718.1	723.2	715.6
17.5°	691.1	690.6	687.0	684.5	685.5	685.0	687.6	684.0
20°	647.8	648.8	646.8	645.8	644.3	640.7	643.8	639.7
22.5°	601.0	602.0	604.0	600.0	600.5	595.4	600.0	595.4
25°	553.6	553.1	550.6	548.5	542.9	537.3	536.3	532.7
27.5°	501.7	498.1	492.0	485.4	476.7	469.1	468.6	466.0
30°	444.6	437.0	425.8	415.1	401.8	390.1	390.1	386.0
32.5°	384.5	367.2	351.9	338.7	321.4	314.7	308.1	304.6
35°	312.7	297.4	279.1	257.2	249.0	232.7	233.8	225.6
37.5°	245.0	226.1	208.8	191.0	176.7	169.1	165.0	160.9
40°	181.8	163.5	144.6	132.9	120.2	113.6	111.0	110.0
42.5°	124.3	109.0	96.8	87.1	80.5	73.3	71.3	70.3
45°	81.0	72.3	61.1	53.5	48.9	44.8	44.8	43.3
47.5°	48.4	42.8	37.2	32.1	29.0	26.5	25.5	25.0
50°	27.0	23.9	20.9	18.8	16.8	15.3	14.8	14.8
52.5°	14.8	13.2	12.2	10.7	9.7	9.7	9.7	9.2
55°	7.6	7.6	7.6	7.6	7.1	7.1	7.1	6.6
57.5°	5.1	5.1	5.6	5.6	5.6	5.1	5.1	5.1
60°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
62.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°









(END OF REPORT)