

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: P209312

Luminaire Tested: **LDSQ6B10D010 EU6B10209035 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209312
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 EU6B10209035 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 3500 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 911.4 lumens
Efficiency: N/A
Efficacy: 90.7 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

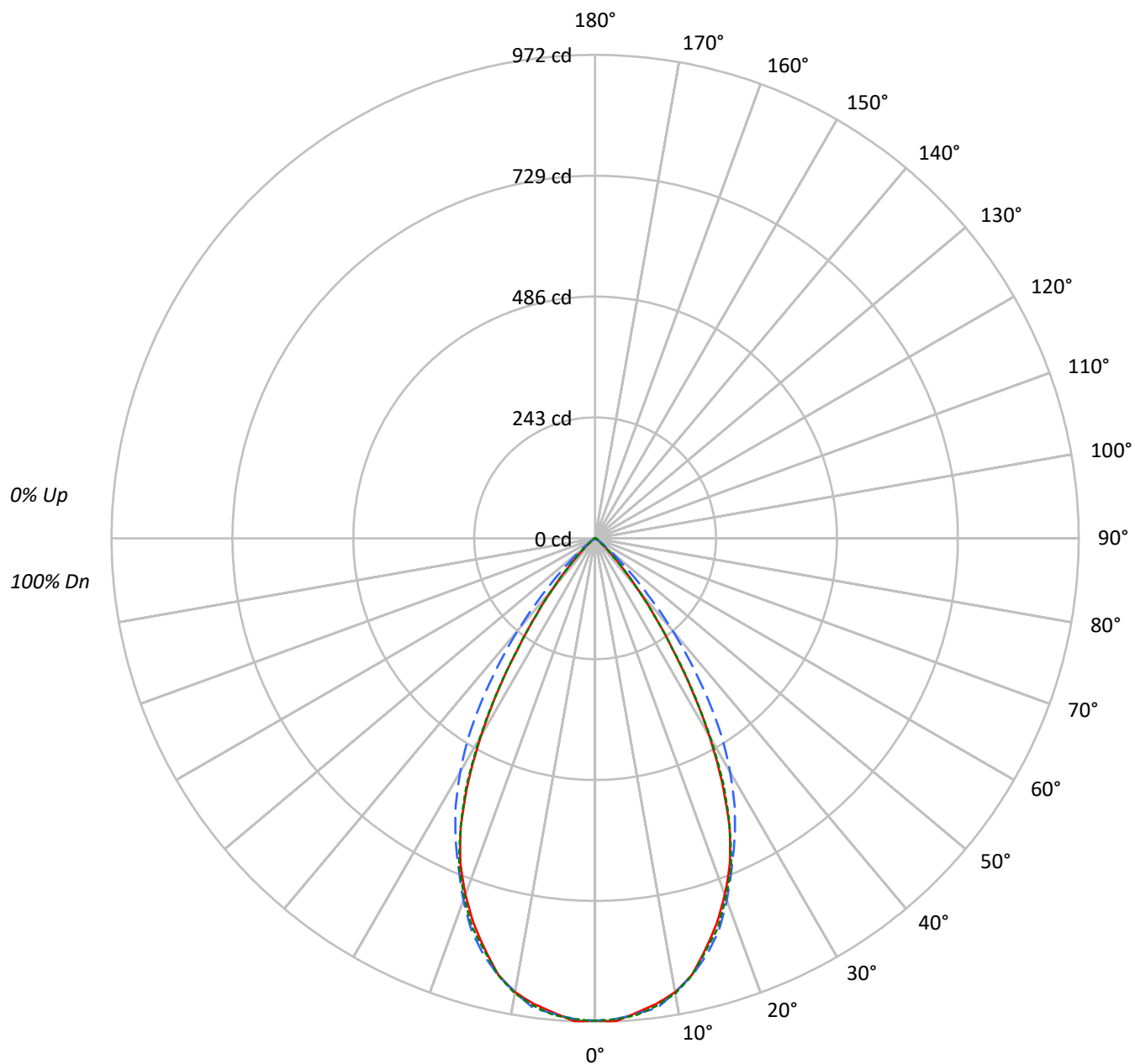
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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°	90.8	10.0
10°-20°	241.5	26.5
20°-30°	296.4	32.5
30°-40°	204.6	22.5
40°-50°	64.0	7.0
50°-60°	10.0	1.1
60°-70°	2.9	0.3
70°-80°	0.9	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°	628.8	69.0
0°-40°	833.4	91.4
0°-60°	907.4	99.6
0°-90°	911.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	911.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	957	961	960	960	962	90
15°	856	868	867	865	859	239
25°	639	655	664	659	639	286
35°	270	319	395	322	271	172
45°	51	69	111	69	52	45
55°	9	9	10	9	8	8
65°	2	3	2	3	2	3
75°	1	1	1	1	1	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°	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9
2.5°	971.7	958.3	966.9	965.0	969.9	973.0	969.9	975.4	971.7	967.5	968.7
5°	957.1	958.9	958.3	959.5	960.7	960.7	966.9	967.5	968.7	959.5	962.0
7.5°	944.2	944.2	947.3	946.1	950.4	949.1	949.7	954.6	955.2	952.8	951.0
10°	926.5	924.1	921.0	921.0	926.5	927.1	932.0	932.6	936.3	926.5	927.7
12.5°	899.0	897.8	892.9	895.3	899.6	897.2	905.1	905.7	904.5	900.2	902.7
15°	855.6	860.5	859.3	858.7	868.5	867.2	866.6	868.5	869.1	866.6	864.8
17.5°	812.2	816.5	817.1	818.3	820.2	822.0	824.5	831.2	828.7	826.9	833.0
20°	762.1	760.3	765.2	770.1	771.9	771.9	775.6	780.5	776.8	774.3	775.0
22.5°	707.7	710.8	708.3	713.2	715.7	718.7	722.4	726.7	723.6	716.9	724.8
25°	638.7	640.5	648.4	647.8	651.5	658.8	664.3	664.3	664.3	663.7	663.7
27.5°	551.9	550.7	560.4	567.2	576.3	587.9	595.3	606.9	608.7	606.9	602.6
30°	459.0	457.8	470.0	478.5	495.0	500.5	520.7	531.7	543.3	542.7	539.7
32.5°	362.4	364.9	374.6	386.9	400.3	417.4	436.4	460.8	471.2	473.6	468.1
35°	269.5	273.2	282.4	292.7	309.2	328.2	354.5	377.7	395.4	395.4	391.1
37.5°	194.3	195.6	204.1	210.8	228.0	245.1	267.7	299.5	310.5	314.7	310.5
40°	132.6	132.6	137.5	144.8	158.9	173.6	194.3	218.2	234.1	240.8	233.5
42.5°	84.3	85.6	89.2	94.1	104.5	117.3	133.2	151.0	162.6	167.5	160.7
45°	50.7	51.9	55.0	58.7	65.4	73.3	84.3	97.2	107.0	111.2	108.2
47.5°	30.6	31.8	33.0	35.4	40.3	45.8	51.3	58.7	64.8	65.4	64.2
50°	17.7	17.7	18.9	20.8	23.2	26.3	29.3	33.6	35.4	37.9	35.4
52.5°	11.6	11.6	11.6	12.2	13.4	14.7	15.9	18.3	19.6	19.6	18.9
55°	8.6	8.6	8.6	8.6	9.2	9.2	9.2	9.8	10.4	10.4	10.4
57.5°	6.1	6.1	6.1	6.7	6.7	6.7	6.1	6.1	6.1	6.1	6.1
60°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.3	4.3	4.3
62.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
65°	2.4	2.4	2.4	3.1	3.1	3.1	3.1	2.4	2.4	2.4	2.4
67.5°	1.8	1.8	1.8	2.4	2.4	2.4	2.4	2.4	1.8	1.8	1.8
70°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9
2.5°	972.4	969.3	969.3	969.3	968.1	969.3	971.1	968.1
5°	962.0	963.2	957.7	962.0	963.8	960.7	968.1	962.0
7.5°	952.8	951.0	942.4	948.5	952.2	953.4	952.8	947.9
10°	934.5	930.2	926.5	926.5	925.3	924.7	931.4	929.0
12.5°	901.5	904.5	899.0	902.1	899.6	900.2	900.8	899.6
15°	873.3	870.3	863.0	867.8	864.8	861.7	867.8	858.7
17.5°	829.3	828.7	824.5	821.4	822.6	822.0	825.1	820.8
20°	777.4	778.6	776.2	775.0	773.1	768.8	772.5	767.6
22.5°	721.2	722.4	724.8	719.9	720.6	714.4	719.9	714.4
25°	664.3	663.7	660.7	658.2	651.5	644.8	643.6	639.3
27.5°	602.0	597.7	590.4	582.4	572.0	562.9	562.3	559.2
30°	533.5	524.4	510.9	498.1	482.2	468.1	468.1	463.3
32.5°	461.4	440.6	422.3	406.4	385.6	377.7	369.8	365.5
35°	375.3	356.9	334.9	308.6	298.9	279.3	280.5	270.7
37.5°	294.0	271.4	250.6	229.2	212.1	202.9	198.0	193.1
40°	218.2	196.2	173.6	159.5	144.2	136.3	133.2	132.0
42.5°	149.1	130.8	116.1	104.5	96.6	88.0	85.6	84.3
45°	97.2	86.8	73.3	64.2	58.7	53.8	53.8	51.9
47.5°	58.1	51.3	44.6	38.5	34.8	31.8	30.6	29.9
50°	32.4	28.7	25.1	22.6	20.2	18.3	17.7	17.7
52.5°	17.7	15.9	14.7	12.8	11.6	11.6	11.6	11.0
55°	9.2	9.2	9.2	9.2	8.6	8.6	8.6	7.9
57.5°	6.1	6.1	6.7	6.7	6.7	6.1	6.1	6.1
60°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
62.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
65°	2.4	3.1	3.1	3.1	3.1	2.4	2.4	2.4
67.5°	1.8	2.4	2.4	2.4	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	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)