

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: P209402

Luminaire Tested: **LDSQ6B70D010 EU6B60709040 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209402
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: LDSQ6B70D010 EU6B60709040 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 4000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6123.0 lumens
Efficiency: N/A
Efficacy: 77.1 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

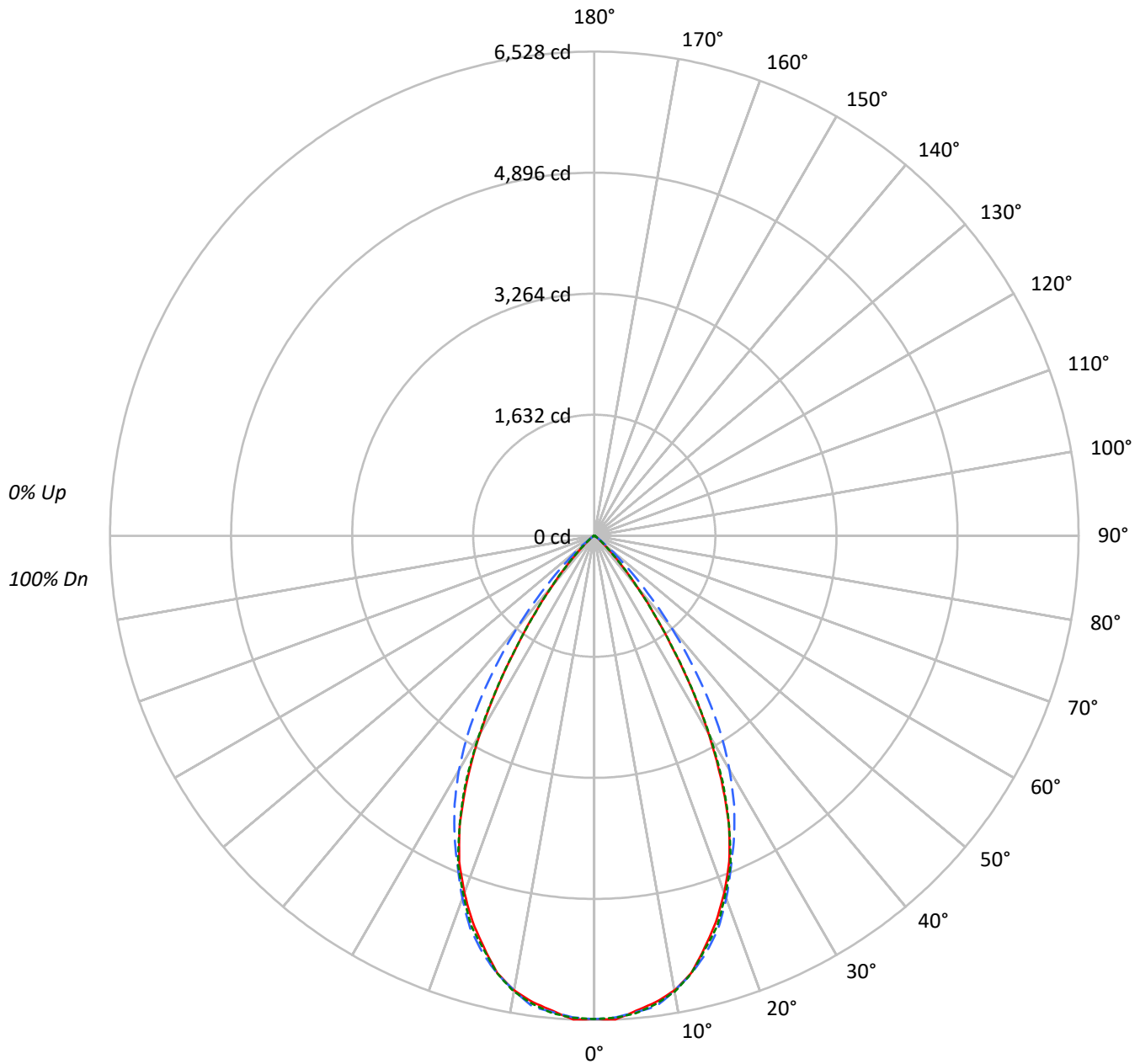
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	81	78		84	80	77		82
5	92	83	78	73	90	82	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	67	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	64	59	55	64	58	55		63	58	54		62
10	71	61	55	52	70	61	55	51	60	55	51		59	55	51		59

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°	610.0	10.0
10°-20°	1622.7	26.5
20°-30°	1991.5	32.5
30°-40°	1374.8	22.5
40°-50°	429.8	7.0
50°-60°	67.1	1.1
60°-70°	19.4	0.3
70°-80°	6.4	0.1
80°-90°	1.4	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°	4224.1	69.0
0°-40°	5598.9	91.4
0°-60°	6095.8	99.6
0°-90°	6123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6516	6516	6516	6516	6516	
5°	6430	6454	6446	6448	6462	608
15°	5748	5830	5822	5814	5768	1608
25°	4290	4401	4459	4430	4294	1922
35°	1811	2141	2656	2162	1819	1157
45°	341	466	747	462	349	305
55°	58	62	70	62	53	56
65°	16	20	16	20	16	18
75°	4	4	4	4	4	6
85°	0	0	0	0	0	1
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°	6515.7	6515.7	6515.7	6515.7	6515.7	6515.7	6515.7	6515.7	6515.7	6515.7	6515.7
2.5°	6528.0	6437.7	6495.2	6482.9	6515.7	6536.2	6515.7	6552.7	6528.0	6499.3	6507.5
5°	6429.5	6441.8	6437.7	6445.9	6454.1	6454.1	6495.2	6499.3	6507.5	6445.9	6462.3
7.5°	6343.3	6343.3	6363.8	6355.6	6384.3	6376.1	6380.2	6413.1	6417.2	6400.8	6388.4
10°	6224.2	6207.8	6187.3	6187.3	6224.2	6228.3	6261.2	6265.3	6289.9	6224.2	6232.4
12.5°	6039.5	6031.2	5998.4	6014.8	6043.6	6027.1	6080.5	6084.6	6076.4	6047.7	6064.1
15°	5748.0	5780.8	5772.6	5768.5	5834.2	5826.0	5821.9	5834.2	5838.3	5821.9	5809.5
17.5°	5456.5	5485.2	5489.3	5497.5	5509.8	5522.1	5538.6	5583.7	5567.3	5555.0	5596.0
20°	5119.8	5107.5	5140.3	5173.2	5185.5	5185.5	5210.1	5243.0	5218.3	5201.9	5206.0
22.5°	4754.4	4774.9	4758.5	4791.3	4807.8	4828.3	4852.9	4881.7	4861.1	4816.0	4869.3
25°	4290.4	4302.8	4356.1	4352.0	4376.7	4425.9	4462.9	4462.9	4462.9	4458.8	4458.8
27.5°	3707.4	3699.2	3764.9	3810.1	3871.7	3949.7	3998.9	4076.9	4089.3	4076.9	4048.2
30°	3083.4	3075.2	3157.3	3214.7	3325.6	3362.6	3498.0	3571.9	3650.0	3645.8	3625.3
32.5°	2434.7	2451.1	2516.8	2598.9	2689.2	2804.2	2931.5	3095.7	3165.5	3181.9	3145.0
35°	1810.6	1835.2	1896.8	1966.6	2077.5	2204.8	2381.3	2537.3	2656.4	2656.4	2627.6
37.5°	1305.6	1313.8	1371.3	1416.5	1531.4	1646.4	1798.3	2011.8	2085.7	2114.4	2085.7
40°	890.9	890.9	923.8	973.0	1067.5	1166.0	1305.6	1465.7	1572.5	1617.6	1568.4
42.5°	566.6	574.8	599.4	632.3	702.1	788.3	895.0	1014.1	1092.1	1125.0	1079.8
45°	340.8	349.0	369.5	394.1	439.3	492.7	566.6	652.8	718.5	747.2	726.7
47.5°	205.3	213.5	221.7	238.1	271.0	307.9	344.9	394.1	435.2	439.3	431.1
50°	119.1	119.1	127.3	139.6	156.0	176.5	197.1	225.8	238.1	254.6	238.1
52.5°	78.0	78.0	78.0	82.1	90.3	98.5	106.7	123.2	131.4	131.4	127.3
55°	57.5	57.5	57.5	57.5	61.6	61.6	61.6	65.7	69.8	69.8	69.8
57.5°	41.1	41.1	41.1	45.2	45.2	45.2	41.1	41.1	41.1	41.1	41.1
60°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	28.7	28.7	28.7
62.5°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
65°	16.4	16.4	16.4	20.5	20.5	20.5	20.5	16.4	16.4	16.4	16.4
67.5°	12.3	12.3	12.3	16.4	16.4	16.4	16.4	16.4	12.3	12.3	12.3
70°	8.2	8.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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°	6515.7	6515.7	6515.7	6515.7	6515.7	6515.7	6515.7	6515.7
2.5°	6532.1	6511.6	6511.6	6511.6	6503.4	6511.6	6523.9	6503.4
5°	6462.3	6470.6	6433.6	6462.3	6474.7	6454.1	6503.4	6462.3
7.5°	6400.8	6388.4	6331.0	6372.0	6396.7	6404.9	6400.8	6367.9
10°	6277.6	6248.8	6224.2	6224.2	6216.0	6211.9	6257.1	6240.6
12.5°	6055.9	6076.4	6039.5	6060.0	6043.6	6047.7	6051.8	6043.6
15°	5867.0	5846.5	5797.2	5830.1	5809.5	5789.0	5830.1	5768.5
17.5°	5571.4	5567.3	5538.6	5518.0	5526.2	5522.1	5542.7	5513.9
20°	5222.4	5230.6	5214.2	5206.0	5193.7	5164.9	5189.6	5156.7
22.5°	4844.7	4852.9	4869.3	4836.5	4840.6	4799.5	4836.5	4799.5
25°	4462.9	4458.8	4438.2	4421.8	4376.7	4331.5	4323.3	4294.5
27.5°	4044.1	4015.4	3966.1	3912.7	3842.9	3781.3	3777.2	3756.7
30°	3584.3	3522.7	3432.3	3346.1	3239.4	3145.0	3145.0	3112.1
32.5°	3099.8	2960.2	2837.0	2730.3	2590.7	2537.3	2483.9	2455.2
35°	2520.9	2397.7	2249.9	2073.4	2007.7	1876.3	1884.5	1818.8
37.5°	1974.8	1822.9	1683.3	1539.6	1424.7	1363.1	1330.2	1297.4
40°	1465.7	1317.9	1166.0	1071.6	968.9	915.6	895.0	886.8
42.5°	1001.8	878.6	780.1	702.1	648.7	591.2	574.8	566.6
45°	652.8	583.0	492.7	431.1	394.1	361.3	361.3	349.0
47.5°	390.0	344.9	299.7	258.7	234.0	213.5	205.3	201.2
50°	217.6	193.0	168.3	151.9	135.5	123.2	119.1	119.1
52.5°	119.1	106.7	98.5	86.2	78.0	78.0	78.0	73.9
55°	61.6	61.6	61.6	61.6	57.5	57.5	57.5	53.4
57.5°	41.1	41.1	45.2	45.2	45.2	41.1	41.1	41.1
60°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
62.5°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
65°	16.4	20.5	20.5	20.5	20.5	16.4	16.4	16.4
67.5°	12.3	16.4	16.4	16.4	12.3	12.3	12.3	12.3
70°	12.3	12.3	12.3	12.3	12.3	8.2	8.2	8.2
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	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)