

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: P209353

Luminaire Tested: **LDSQ6B30D010 EU6B30509727 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209353
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: LDSQ6B30D010 EU6B30509727 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-27.4 W DE010-27.95 W D5LT-27.65 W DMX-27.73 W DL2-29.56 W
DL3-29.67 W DLE-29.73 W
Light Source: HIGH LUMEN LED 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2082.8 lumens
Efficiency: N/A
Efficacy: 74.4 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

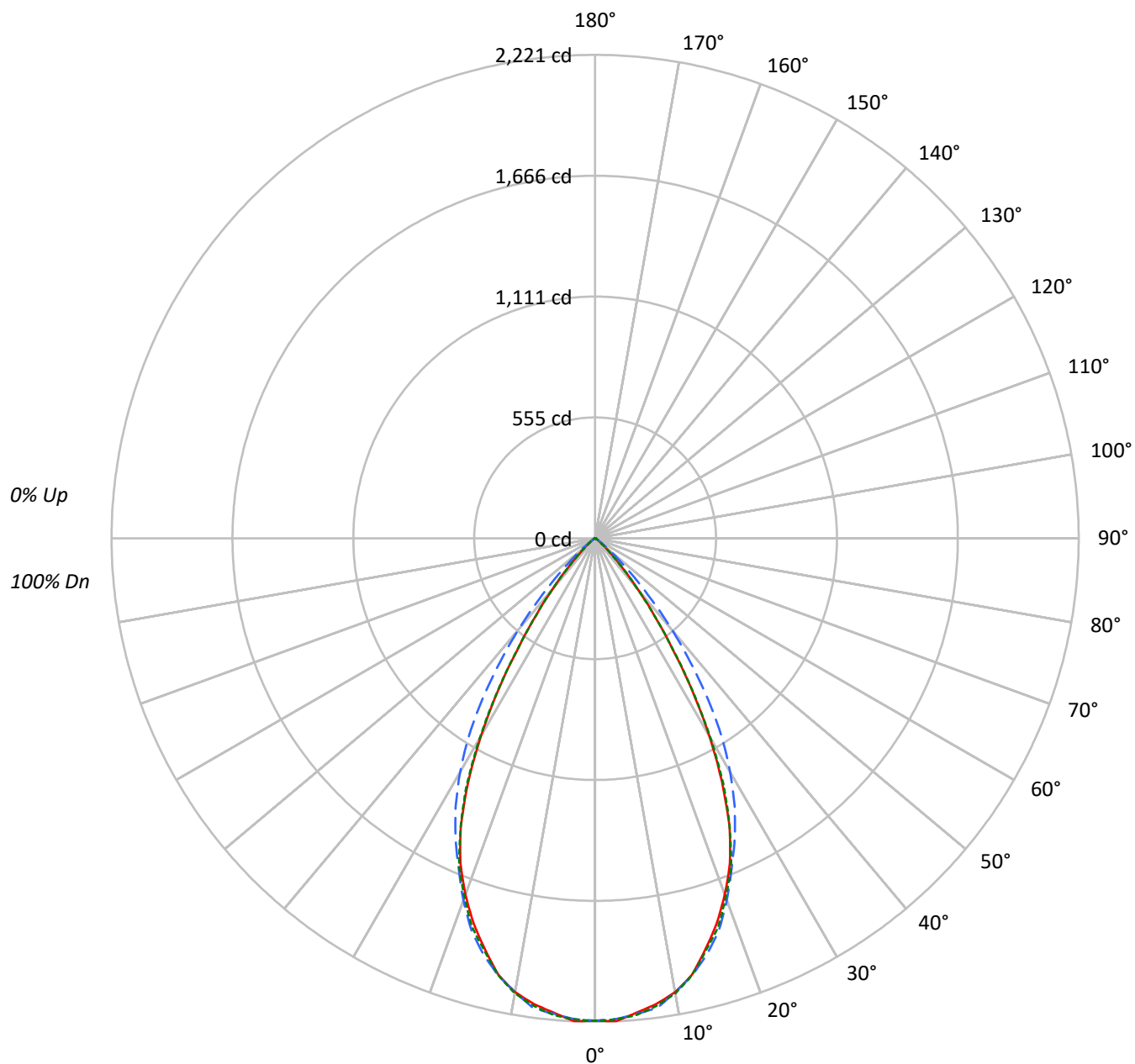
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	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°	207.5	10.0
10°-20°	552.0	26.5
20°-30°	677.4	32.5
30°-40°	467.6	22.5
40°-50°	146.2	7.0
50°-60°	22.8	1.1
60°-70°	6.6	0.3
70°-80°	2.2	0.1
80°-90°	0.5	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°	1436.9	69.0
0°-40°	1904.5	91.4
0°-60°	2073.6	99.6
0°-90°	2082.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2082.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2216	2216	2216	2216	2216	
5°	2187	2196	2193	2193	2198	207
15°	1955	1983	1980	1978	1962	547
25°	1459	1497	1517	1507	1461	654
35°	616	728	904	735	619	393
45°	116	158	254	157	119	104
55°	20	21	24	21	18	19
65°	6	7	6	7	6	6
75°	1	1	1	1	1	2
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°	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4
2.5°	2220.6	2189.9	2209.4	2205.2	2216.4	2223.4	2216.4	2229.0	2220.6	2210.8	2213.6
5°	2187.1	2191.3	2189.9	2192.7	2195.5	2195.5	2209.4	2210.8	2213.6	2192.7	2198.3
7.5°	2157.8	2157.8	2164.7	2161.9	2171.7	2168.9	2170.3	2181.5	2182.9	2177.3	2173.1
10°	2117.2	2111.7	2104.7	2104.7	2117.2	2118.6	2129.8	2131.2	2139.6	2117.2	2120.0
12.5°	2054.4	2051.6	2040.4	2046.0	2055.8	2050.2	2068.4	2069.8	2067.0	2057.2	2062.8
15°	1955.2	1966.4	1963.6	1962.2	1984.6	1981.8	1980.4	1984.6	1986.0	1980.4	1976.2
17.5°	1856.1	1865.9	1867.3	1870.1	1874.2	1878.4	1884.0	1899.4	1893.8	1889.6	1903.6
20°	1741.6	1737.4	1748.5	1759.7	1763.9	1763.9	1772.3	1783.5	1775.1	1769.5	1770.9
22.5°	1617.3	1624.2	1618.7	1629.8	1635.4	1642.4	1650.8	1660.6	1653.6	1638.2	1656.4
25°	1459.4	1463.6	1481.8	1480.4	1488.8	1505.5	1518.1	1518.1	1518.1	1516.7	1516.7
27.5°	1261.1	1258.3	1280.7	1296.0	1317.0	1343.5	1360.3	1386.8	1391.0	1386.8	1377.0
30°	1048.8	1046.1	1074.0	1093.5	1131.2	1143.8	1189.9	1215.0	1241.6	1240.2	1233.2
32.5°	828.2	833.8	856.1	884.0	914.8	953.9	997.2	1053.0	1076.8	1082.4	1069.8
35°	615.9	624.3	645.2	669.0	706.7	750.0	810.0	863.1	903.6	903.6	893.8
37.5°	444.1	446.9	466.5	481.8	520.9	560.0	611.7	684.3	709.5	719.3	709.5
40°	303.1	303.1	314.2	331.0	363.1	396.6	444.1	498.6	534.9	550.3	533.5
42.5°	192.7	195.5	203.9	215.1	238.8	268.1	304.5	345.0	371.5	382.7	367.3
45°	115.9	118.7	125.7	134.1	149.4	167.6	192.7	222.1	244.4	254.2	247.2
47.5°	69.8	72.6	75.4	81.0	92.2	104.7	117.3	134.1	148.0	149.4	146.6
50°	40.5	40.5	43.3	47.5	53.1	60.1	67.0	76.8	81.0	86.6	81.0
52.5°	26.5	26.5	26.5	27.9	30.7	33.5	36.3	41.9	44.7	44.7	43.3
55°	19.6	19.6	19.6	19.6	20.9	20.9	20.9	22.3	23.7	23.7	23.7
57.5°	14.0	14.0	14.0	15.4	15.4	15.4	14.0	14.0	14.0	14.0	14.0
60°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	9.8	9.8	9.8
62.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
65°	5.6	5.6	5.6	7.0	7.0	7.0	7.0	5.6	5.6	5.6	5.6
67.5°	4.2	4.2	4.2	5.6	5.6	5.6	5.6	5.6	4.2	4.2	4.2
70°	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4
2.5°	2222.0	2215.0	2215.0	2215.0	2212.2	2215.0	2219.2	2212.2
5°	2198.3	2201.0	2188.5	2198.3	2202.4	2195.5	2212.2	2198.3
7.5°	2177.3	2173.1	2153.6	2167.5	2175.9	2178.7	2177.3	2166.1
10°	2135.4	2125.6	2117.2	2117.2	2114.5	2113.1	2128.4	2122.8
12.5°	2060.0	2067.0	2054.4	2061.4	2055.8	2057.2	2058.6	2055.8
15°	1995.7	1988.8	1972.0	1983.2	1976.2	1969.2	1983.2	1962.2
17.5°	1895.2	1893.8	1884.0	1877.0	1879.8	1878.4	1885.4	1875.6
20°	1776.5	1779.3	1773.7	1770.9	1766.7	1756.9	1765.3	1754.1
22.5°	1648.0	1650.8	1656.4	1645.2	1646.6	1632.6	1645.2	1632.6
25°	1518.1	1516.7	1509.7	1504.1	1488.8	1473.4	1470.6	1460.8
27.5°	1375.7	1365.9	1349.1	1331.0	1307.2	1286.3	1284.9	1277.9
30°	1219.2	1198.3	1167.6	1138.2	1101.9	1069.8	1069.8	1058.6
32.5°	1054.4	1007.0	965.1	928.7	881.3	863.1	844.9	835.2
35°	857.5	815.6	765.3	705.3	682.9	638.2	641.0	618.7
37.5°	671.8	620.1	572.6	523.7	484.6	463.7	452.5	441.3
40°	498.6	448.3	396.6	364.5	329.6	311.4	304.5	301.7
42.5°	340.8	298.9	265.4	238.8	220.7	201.1	195.5	192.7
45°	222.1	198.3	167.6	146.6	134.1	122.9	122.9	118.7
47.5°	132.7	117.3	102.0	88.0	79.6	72.6	69.8	68.4
50°	74.0	65.6	57.3	51.7	46.1	41.9	40.5	40.5
52.5°	40.5	36.3	33.5	29.3	26.5	26.5	26.5	25.1
55°	20.9	20.9	20.9	20.9	19.6	19.6	19.6	18.2
57.5°	14.0	14.0	15.4	15.4	15.4	14.0	14.0	14.0
60°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
62.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
65°	5.6	7.0	7.0	7.0	7.0	5.6	5.6	5.6
67.5°	4.2	5.6	5.6	5.6	4.2	4.2	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.2	2.8	2.8	2.8
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	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)