

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: P209306

Luminaire Tested: **LDSQ6B10D010 EU6B10208035 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209306
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 EU6B10208035 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: 1077.5 lumens
Efficiency: N/A
Efficacy: 107.2 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

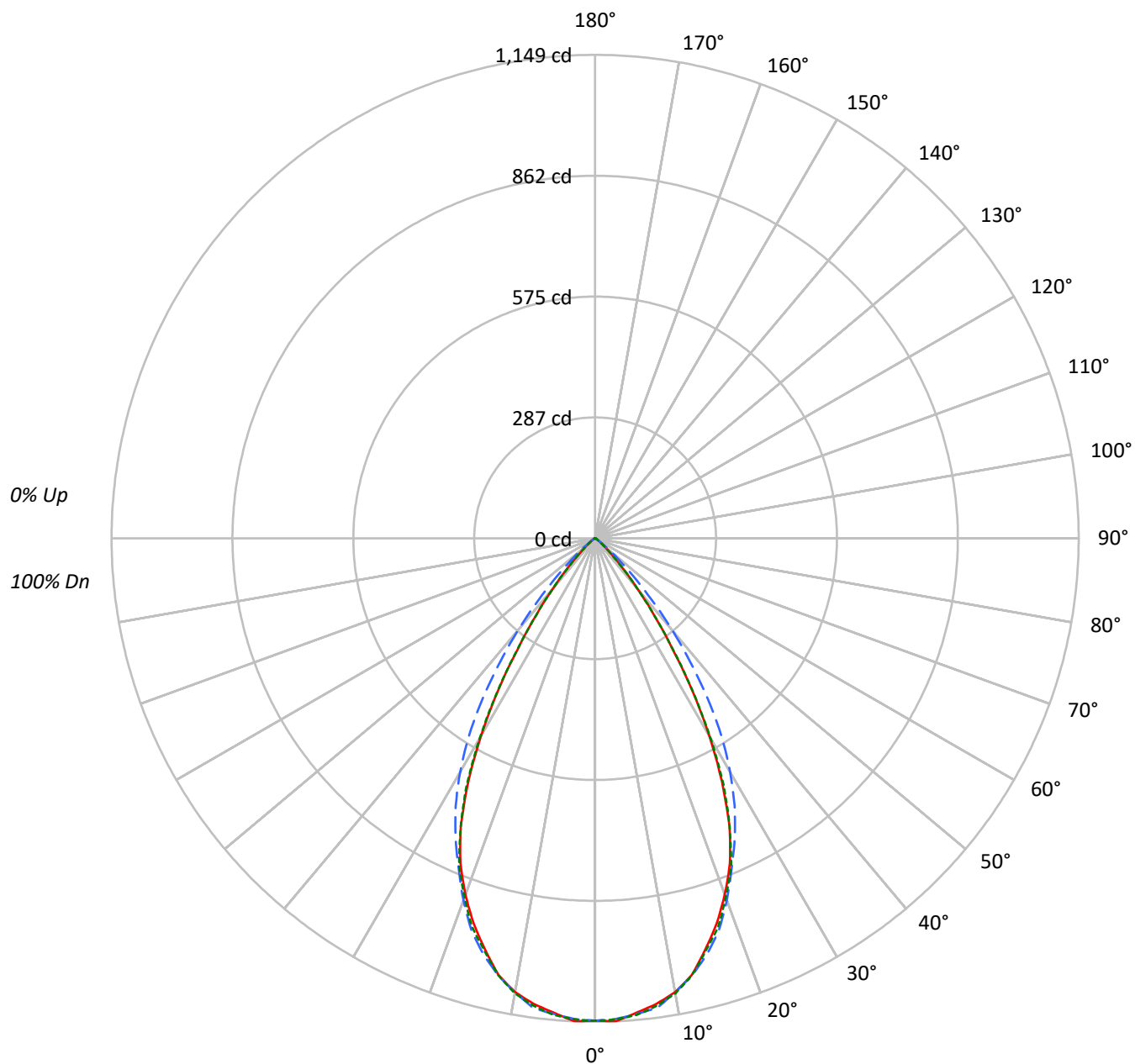
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	107.3	10.0
10°-20°	285.6	26.5
20°-30°	350.5	32.5
30°-40°	241.9	22.5
40°-50°	75.6	7.0
50°-60°	11.8	1.1
60°-70°	3.4	0.3
70°-80°	1.1	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°	743.4	69.0
0°-40°	985.3	91.4
0°-60°	1072.7	99.6
0°-90°	1077.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1077.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1132	1136	1134	1135	1137	107
15°	1012	1026	1024	1023	1015	283
25°	755	775	785	780	756	338
35°	319	377	468	380	320	204
45°	60	82	132	81	61	54
55°	10	11	12	11	9	10
65°	3	4	3	4	3	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°	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6
2.5°	1148.8	1132.9	1143.0	1140.9	1146.6	1150.3	1146.6	1153.1	1148.8	1143.7	1145.2
5°	1131.5	1133.6	1132.9	1134.4	1135.8	1135.8	1143.0	1143.7	1145.2	1134.4	1137.2
7.5°	1116.3	1116.3	1119.9	1118.5	1123.5	1122.1	1122.8	1128.6	1129.3	1126.4	1124.2
10°	1095.3	1092.4	1088.8	1088.8	1095.3	1096.1	1101.8	1102.6	1106.9	1095.3	1096.8
12.5°	1062.8	1061.4	1055.6	1058.5	1063.5	1060.7	1070.1	1070.8	1069.3	1064.3	1067.2
15°	1011.5	1017.3	1015.9	1015.1	1026.7	1025.3	1024.5	1026.7	1027.4	1024.5	1022.4
17.5°	960.2	965.3	966.0	967.5	969.6	971.8	974.7	982.6	979.7	977.6	984.8
20°	901.0	898.8	904.6	910.4	912.5	912.5	916.9	922.7	918.3	915.4	916.2
22.5°	836.7	840.3	837.4	843.2	846.1	849.7	854.0	859.1	855.5	847.5	856.9
25°	755.0	757.2	766.6	765.9	770.2	778.9	785.4	785.4	785.4	784.7	784.7
27.5°	652.4	651.0	662.6	670.5	681.3	695.1	703.7	717.5	719.6	717.5	712.4
30°	542.6	541.2	555.6	565.7	585.2	591.7	615.6	628.6	642.3	641.6	638.0
32.5°	428.5	431.3	442.9	457.4	473.3	493.5	515.9	544.8	557.1	560.0	553.4
35°	318.6	323.0	333.8	346.1	365.6	388.0	419.1	446.5	467.5	467.5	462.4
37.5°	229.8	231.2	241.3	249.3	269.5	289.7	316.5	354.0	367.0	372.1	367.0
40°	156.8	156.8	162.6	171.2	187.9	205.2	229.8	257.9	276.7	284.7	276.0
42.5°	99.7	101.2	105.5	111.3	123.6	138.7	157.5	178.5	192.2	198.0	190.0
45°	60.0	61.4	65.0	69.4	77.3	86.7	99.7	114.9	126.4	131.5	127.9
47.5°	36.1	37.6	39.0	41.9	47.7	54.2	60.7	69.4	76.6	77.3	75.9
50°	21.0	21.0	22.4	24.6	27.5	31.1	34.7	39.7	41.9	44.8	41.9
52.5°	13.7	13.7	13.7	14.5	15.9	17.3	18.8	21.7	23.1	23.1	22.4
55°	10.1	10.1	10.1	10.1	10.8	10.8	10.8	11.6	12.3	12.3	12.3
57.5°	7.2	7.2	7.2	7.9	7.9	7.9	7.2	7.2	7.2	7.2	7.2
60°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.1	5.1	5.1
62.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	2.9	2.9	2.9	3.6	3.6	3.6	3.6	2.9	2.9	2.9	2.9
67.5°	2.2	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.2
70°	1.4	1.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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°	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6	1146.6
2.5°	1149.5	1145.9	1145.9	1145.9	1144.5	1145.9	1148.1	1144.5
5°	1137.2	1138.7	1132.2	1137.2	1139.4	1135.8	1144.5	1137.2
7.5°	1126.4	1124.2	1114.1	1121.3	1125.7	1127.1	1126.4	1120.6
10°	1104.7	1099.7	1095.3	1095.3	1093.9	1093.2	1101.1	1098.2
12.5°	1065.7	1069.3	1062.8	1066.4	1063.5	1064.3	1065.0	1063.5
15°	1032.5	1028.9	1020.2	1026.0	1022.4	1018.8	1026.0	1015.1
17.5°	980.5	979.7	974.7	971.1	972.5	971.8	975.4	970.3
20°	919.0	920.5	917.6	916.2	914.0	908.9	913.3	907.5
22.5°	852.6	854.0	856.9	851.1	851.9	844.6	851.1	844.6
25°	785.4	784.7	781.0	778.2	770.2	762.3	760.8	755.8
27.5°	711.7	706.6	698.0	688.6	676.3	665.4	664.7	661.1
30°	630.8	619.9	604.0	588.9	570.1	553.4	553.4	547.7
32.5°	545.5	520.9	499.3	480.5	455.9	446.5	437.1	432.1
35°	443.6	422.0	395.9	364.9	353.3	330.2	331.6	320.1
37.5°	347.5	320.8	296.2	270.9	250.7	239.9	234.1	228.3
40°	257.9	231.9	205.2	188.6	170.5	161.1	157.5	156.1
42.5°	176.3	154.6	137.3	123.6	114.2	104.0	101.2	99.7
45°	114.9	102.6	86.7	75.9	69.4	63.6	63.6	61.4
47.5°	68.6	60.7	52.7	45.5	41.2	37.6	36.1	35.4
50°	38.3	34.0	29.6	26.7	23.8	21.7	21.0	21.0
52.5°	21.0	18.8	17.3	15.2	13.7	13.7	13.7	13.0
55°	10.8	10.8	10.8	10.8	10.1	10.1	10.1	9.4
57.5°	7.2	7.2	7.9	7.9	7.9	7.2	7.2	7.2
60°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
62.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	2.9	3.6	3.6	3.6	3.6	2.9	2.9	2.9
67.5°	2.2	2.9	2.9	2.9	2.2	2.2	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2	1.4	1.4	1.4
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	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)