

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: P209326

Luminaire Tested: **LDSQ6B15D010 EU6B10209050 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209326
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: LDSQ6B15D010 EU6B10209050 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-14.39 W DE010-14.29 W D5LT-14.34 W DMX-14.46 W DL2-15.8 W
DL3-15.28 W DLE-15.432 W
Light Source: HIGH LUMEN LED 5000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1267.1 lumens
Efficiency: N/A
Efficacy: 88.1 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

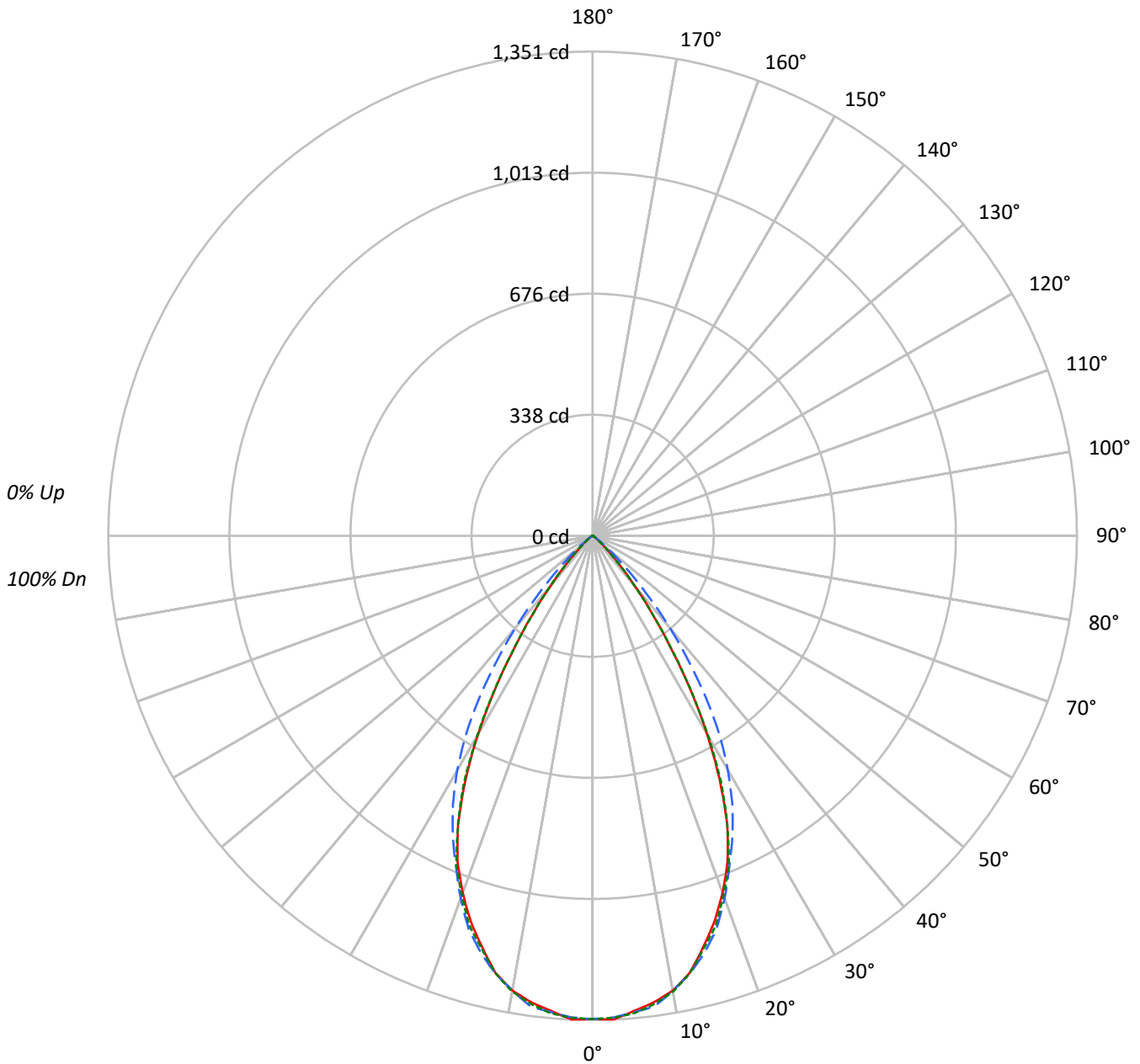
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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°	126.2	10.0
10°-20°	335.8	26.5
20°-30°	412.2	32.5
30°-40°	284.5	22.5
40°-50°	89.0	7.0
50°-60°	13.9	1.1
60°-70°	4.0	0.3
70°-80°	1.3	0.1
80°-90°	0.3	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°	874.2	69.0
0°-40°	1158.7	91.4
0°-60°	1261.6	99.6
0°-90°	1267.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1267.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1331	1336	1334	1334	1338	126
15°	1190	1207	1205	1203	1194	333
25°	888	911	923	917	889	398
35°	375	443	550	447	376	239
45°	70	96	155	96	72	63
55°	12	13	14	13	11	12
65°	3	4	3	4	3	4
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°	1348.5	1348.5	1348.5	1348.5	1348.5	1348.5	1348.5	1348.5	1348.5	1348.5	1348.5
2.5°	1351.1	1332.4	1344.3	1341.7	1348.5	1352.8	1348.5	1356.2	1351.1	1345.1	1346.8
5°	1330.7	1333.2	1332.4	1334.1	1335.8	1335.8	1344.3	1345.1	1346.8	1334.1	1337.5
7.5°	1312.8	1312.8	1317.1	1315.4	1321.3	1319.6	1320.5	1327.3	1328.1	1324.7	1322.2
10°	1288.2	1284.8	1280.5	1280.5	1288.2	1289.0	1295.8	1296.7	1301.8	1288.2	1289.9
12.5°	1249.9	1248.2	1241.4	1244.8	1250.8	1247.4	1258.4	1259.3	1257.6	1251.6	1255.0
15°	1189.6	1196.4	1194.7	1193.9	1207.5	1205.8	1204.9	1207.5	1208.3	1204.9	1202.4
17.5°	1129.3	1135.2	1136.1	1137.8	1140.3	1142.9	1146.3	1155.6	1152.2	1149.7	1158.2
20°	1059.6	1057.1	1063.8	1070.6	1073.2	1073.2	1078.3	1085.1	1080.0	1076.6	1077.4
22.5°	984.0	988.2	984.8	991.6	995.0	999.3	1004.4	1010.3	1006.1	996.7	1007.8
25°	888.0	890.5	901.6	900.7	905.8	916.0	923.6	923.6	923.6	922.8	922.8
27.5°	767.3	765.6	779.2	788.5	801.3	817.4	827.6	843.8	846.3	843.8	837.8
30°	638.1	636.4	653.4	665.3	688.3	695.9	724.0	739.3	755.4	754.6	750.3
32.5°	503.9	507.3	520.9	537.9	556.6	580.4	606.7	640.7	655.1	658.5	650.9
35°	374.7	379.8	392.6	407.0	430.0	456.3	492.8	525.1	549.8	549.8	543.8
37.5°	270.2	271.9	283.8	293.2	316.9	340.7	372.2	416.4	431.7	437.6	431.7
40°	184.4	184.4	191.2	201.4	220.9	241.3	270.2	303.4	325.4	334.8	324.6
42.5°	117.3	119.0	124.1	130.9	145.3	163.1	185.2	209.9	226.0	232.8	223.5
45°	70.5	72.2	76.5	81.6	90.9	102.0	117.3	135.1	148.7	154.6	150.4
47.5°	42.5	44.2	45.9	49.3	56.1	63.7	71.4	81.6	90.1	90.9	89.2
50°	24.6	24.6	26.3	28.9	32.3	36.5	40.8	46.7	49.3	52.7	49.3
52.5°	16.1	16.1	16.1	17.0	18.7	20.4	22.1	25.5	27.2	27.2	26.3
55°	11.9	11.9	11.9	11.9	12.7	12.7	12.7	13.6	14.4	14.4	14.4
57.5°	8.5	8.5	8.5	9.3	9.3	9.3	8.5	8.5	8.5	8.5	8.5
60°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	5.9	5.9	5.9
62.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
65°	3.4	3.4	3.4	4.2	4.2	4.2	4.2	3.4	3.4	3.4	3.4
67.5°	2.5	2.5	2.5	3.4	3.4	3.4	3.4	3.4	2.5	2.5	2.5
70°	1.7	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	1348.5	1348.5	1348.5	1348.5	1348.5	1348.5	1348.5	1348.5
2.5°	1351.9	1347.7	1347.7	1347.7	1346.0	1347.7	1350.2	1346.0
5°	1337.5	1339.2	1331.5	1337.5	1340.0	1335.8	1346.0	1337.5
7.5°	1324.7	1322.2	1310.3	1318.8	1323.9	1325.6	1324.7	1317.9
10°	1299.2	1293.3	1288.2	1288.2	1286.5	1285.6	1295.0	1291.6
12.5°	1253.3	1257.6	1249.9	1254.2	1250.8	1251.6	1252.5	1250.8
15°	1214.3	1210.0	1199.8	1206.6	1202.4	1198.1	1206.6	1193.9
17.5°	1153.1	1152.2	1146.3	1142.0	1143.7	1142.9	1147.1	1141.2
20°	1080.8	1082.5	1079.1	1077.4	1074.9	1068.9	1074.0	1067.2
22.5°	1002.7	1004.4	1007.8	1001.0	1001.8	993.3	1001.0	993.3
25°	923.6	922.8	918.5	915.1	905.8	896.5	894.8	888.8
27.5°	837.0	831.0	820.8	809.8	795.3	782.6	781.7	777.5
30°	741.8	729.1	710.4	692.5	670.4	650.9	650.9	644.1
32.5°	641.5	612.6	587.2	565.1	536.2	525.1	514.1	508.1
35°	521.7	496.2	465.6	429.1	415.5	388.3	390.0	376.4
37.5°	408.7	377.3	348.4	318.6	294.9	282.1	275.3	268.5
40°	303.4	272.8	241.3	221.8	200.5	189.5	185.2	183.5
42.5°	207.3	181.8	161.4	145.3	134.3	122.4	119.0	117.3
45°	135.1	120.7	102.0	89.2	81.6	74.8	74.8	72.2
47.5°	80.7	71.4	62.0	53.5	48.4	44.2	42.5	41.6
50°	45.0	39.9	34.8	31.4	28.0	25.5	24.6	24.6
52.5°	24.6	22.1	20.4	17.8	16.1	16.1	16.1	15.3
55°	12.7	12.7	12.7	12.7	11.9	11.9	11.9	11.0
57.5°	8.5	8.5	9.3	9.3	9.3	8.5	8.5	8.5
60°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
62.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
65°	3.4	4.2	4.2	4.2	4.2	3.4	3.4	3.4
67.5°	2.5	3.4	3.4	3.4	2.5	2.5	2.5	2.5
70°	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8	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)