

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: P209324

Luminaire Tested: **LDSQ6B15D010 EU6B10209035 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209324
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 EU6B10209035 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 3500 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1260.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

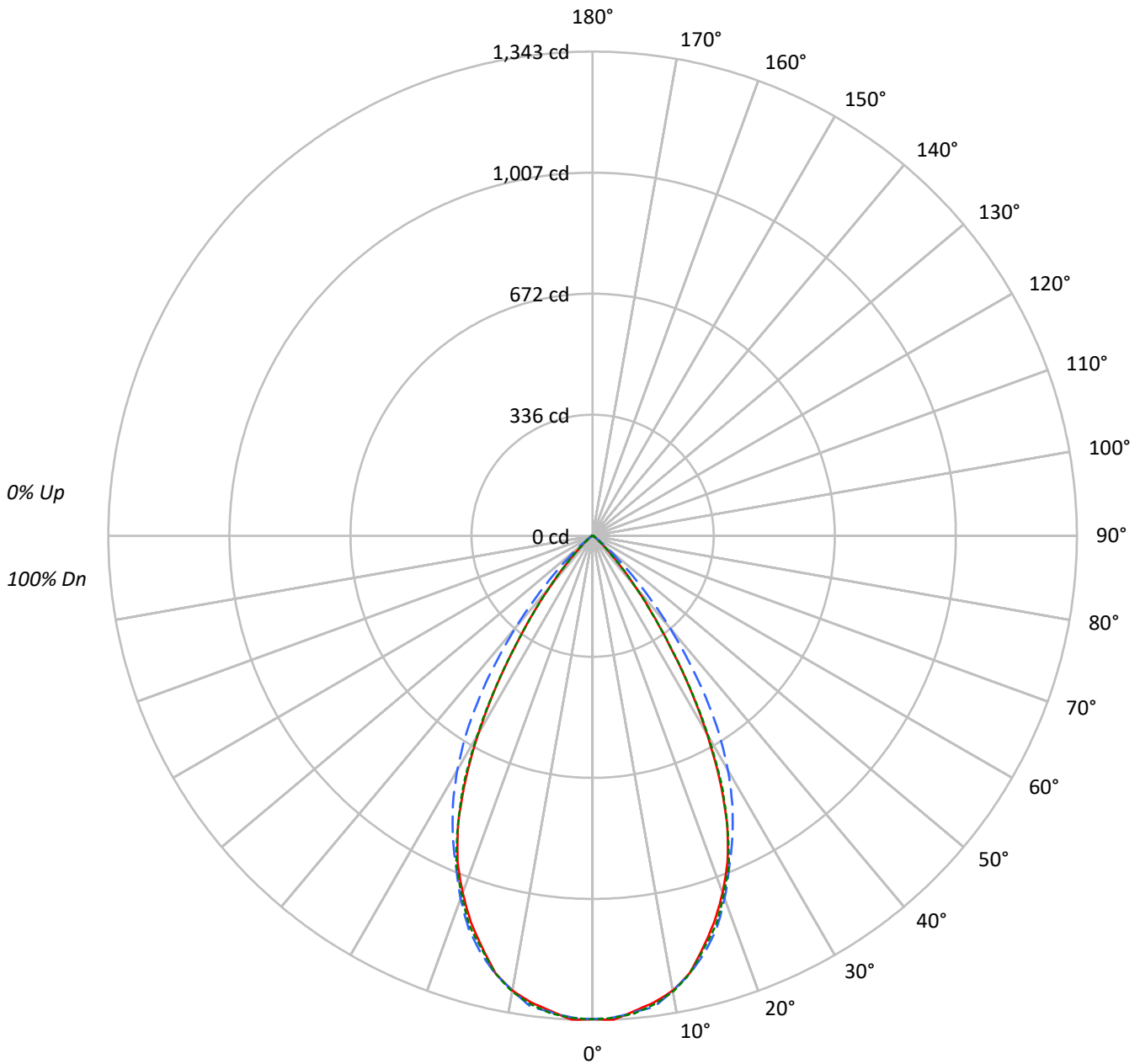
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	125.5	10.0
10°-20°	333.9	26.5
20°-30°	409.8	32.5
30°-40°	282.9	22.5
40°-50°	88.5	7.0
50°-60°	13.8	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°	869.3	69.0
0°-40°	1152.2	91.4
0°-60°	1254.5	99.6
0°-90°	1260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1323	1328	1326	1327	1330	125
15°	1183	1200	1198	1196	1187	331
25°	883	906	918	912	884	396
35°	373	441	547	445	374	238
45°	70	96	154	95	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9
2.5°	1343.4	1324.9	1336.7	1334.1	1340.9	1345.1	1340.9	1348.5	1343.4	1337.5	1339.2
5°	1323.2	1325.7	1324.9	1326.5	1328.2	1328.2	1336.7	1337.5	1339.2	1326.5	1329.9
7.5°	1305.4	1305.4	1309.6	1308.0	1313.9	1312.2	1313.0	1319.8	1320.6	1317.2	1314.7
10°	1280.9	1277.5	1273.3	1273.3	1280.9	1281.8	1288.5	1289.4	1294.4	1280.9	1282.6
12.5°	1242.9	1241.2	1234.4	1237.8	1243.7	1240.4	1251.3	1252.2	1250.5	1244.6	1248.0
15°	1182.9	1189.7	1188.0	1187.1	1200.6	1199.0	1198.1	1200.6	1201.5	1198.1	1195.6
17.5°	1122.9	1128.8	1129.7	1131.4	1133.9	1136.4	1139.8	1149.1	1145.7	1143.2	1151.6
20°	1053.6	1051.1	1057.9	1064.6	1067.1	1067.1	1072.2	1079.0	1073.9	1070.5	1071.4
22.5°	978.4	982.7	979.3	986.0	989.4	993.6	998.7	1004.6	1000.4	991.1	1002.1
25°	883.0	885.5	896.5	895.6	900.7	910.8	918.4	918.4	918.4	917.6	917.6
27.5°	763.0	761.3	774.8	784.1	796.8	812.8	823.0	839.0	841.6	839.0	833.1
30°	634.5	632.9	649.8	661.6	684.4	692.0	719.9	735.1	751.1	750.3	746.1
32.5°	501.0	504.4	517.9	534.8	553.4	577.1	603.3	637.1	651.4	654.8	647.2
35°	372.6	377.7	390.4	404.7	427.5	453.7	490.1	522.2	546.7	546.7	540.8
37.5°	268.7	270.4	282.2	291.5	315.2	338.8	370.1	414.0	429.2	435.1	429.2
40°	183.4	183.4	190.1	200.2	219.7	240.0	268.7	301.6	323.6	332.9	322.8
42.5°	116.6	118.3	123.4	130.1	144.5	162.2	184.2	208.7	224.8	231.5	222.2
45°	70.1	71.8	76.0	81.1	90.4	101.4	116.6	134.3	147.9	153.8	149.6
47.5°	42.2	43.9	45.6	49.0	55.8	63.4	71.0	81.1	89.6	90.4	88.7
50°	24.5	24.5	26.2	28.7	32.1	36.3	40.6	46.5	49.0	52.4	49.0
52.5°	16.1	16.1	16.1	16.9	18.6	20.3	22.0	25.3	27.0	27.0	26.2
55°	11.8	11.8	11.8	11.8	12.7	12.7	12.7	13.5	14.4	14.4	14.4
57.5°	8.4	8.4	8.4	9.3	9.3	9.3	8.4	8.4	8.4	8.4	8.4
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°	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9	1340.9
2.5°	1344.3	1340.1	1340.1	1340.1	1338.4	1340.1	1342.6	1338.4
5°	1329.9	1331.6	1324.0	1329.9	1332.5	1328.2	1338.4	1329.9
7.5°	1317.2	1314.7	1302.9	1311.3	1316.4	1318.1	1317.2	1310.5
10°	1291.9	1286.0	1280.9	1280.9	1279.2	1278.4	1287.7	1284.3
12.5°	1246.3	1250.5	1242.9	1247.1	1243.7	1244.6	1245.4	1243.7
15°	1207.4	1203.2	1193.0	1199.8	1195.6	1191.4	1199.8	1187.1
17.5°	1146.6	1145.7	1139.8	1135.6	1137.3	1136.4	1140.7	1134.7
20°	1074.8	1076.4	1073.1	1071.4	1068.8	1062.9	1068.0	1061.2
22.5°	997.0	998.7	1002.1	995.3	996.2	987.7	995.3	987.7
25°	918.4	917.6	913.4	910.0	900.7	891.4	889.7	883.8
27.5°	832.3	826.3	816.2	805.2	790.9	778.2	777.3	773.1
30°	737.6	725.0	706.4	688.6	666.7	647.2	647.2	640.5
32.5°	637.9	609.2	583.8	561.9	533.2	522.2	511.2	505.3
35°	518.8	493.4	463.0	426.7	413.2	386.1	387.8	374.3
37.5°	406.4	375.1	346.4	316.8	293.2	280.5	273.8	267.0
40°	301.6	271.2	240.0	220.5	199.4	188.4	184.2	182.5
42.5°	206.2	180.8	160.5	144.5	133.5	121.7	118.3	116.6
45°	134.3	120.0	101.4	88.7	81.1	74.4	74.4	71.8
47.5°	80.3	71.0	61.7	53.2	48.2	43.9	42.2	41.4
50°	44.8	39.7	34.6	31.3	27.9	25.3	24.5	24.5
52.5°	24.5	22.0	20.3	17.7	16.1	16.1	16.1	15.2
55°	12.7	12.7	12.7	12.7	11.8	11.8	11.8	11.0
57.5°	8.4	8.4	9.3	9.3	9.3	8.4	8.4	8.4
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)