

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: P209325

Luminaire Tested: **LDSQ6B15D010 EU6B10209040 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209325
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 EU6B10209040 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 4000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1262.4 lumens
Efficiency: N/A
Efficacy: 87.7 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

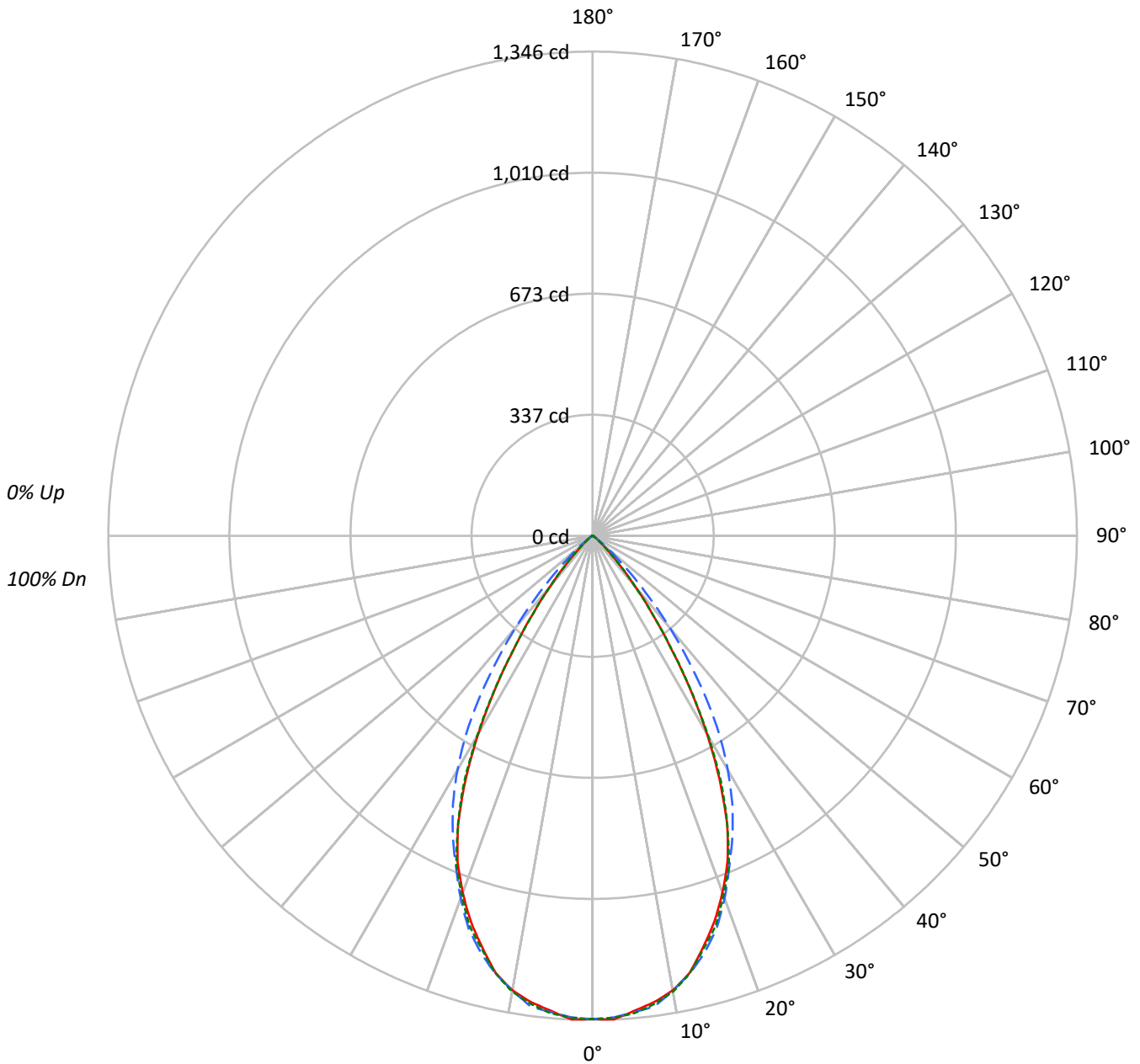
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	125.8	10.0
10°-20°	334.6	26.5
20°-30°	410.6	32.5
30°-40°	283.5	22.5
40°-50°	88.6	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°	870.9	69.0
0°-40°	1154.4	91.4
0°-60°	1256.9	99.6
0°-90°	1262.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1262.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1326	1331	1329	1329	1332	125
15°	1185	1202	1200	1199	1189	331
25°	885	908	919	913	886	396
35°	373	441	548	446	375	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°	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4
2.5°	1346.0	1327.4	1339.2	1336.7	1343.4	1347.7	1343.4	1351.1	1346.0	1340.1	1341.7
5°	1325.7	1328.2	1327.4	1329.0	1330.7	1330.7	1339.2	1340.1	1341.7	1329.0	1332.4
7.5°	1307.9	1307.9	1312.1	1310.4	1316.4	1314.7	1315.5	1322.3	1323.1	1319.7	1317.2
10°	1283.3	1280.0	1275.7	1275.7	1283.3	1284.2	1291.0	1291.8	1296.9	1283.3	1285.0
12.5°	1245.2	1243.5	1236.8	1240.2	1246.1	1242.7	1253.7	1254.6	1252.9	1246.9	1250.3
15°	1185.1	1191.9	1190.2	1189.4	1202.9	1201.2	1200.4	1202.9	1203.8	1200.4	1197.8
17.5°	1125.0	1131.0	1131.8	1133.5	1136.0	1138.6	1142.0	1151.3	1147.9	1145.4	1153.8
20°	1055.6	1053.1	1059.9	1066.6	1069.2	1069.2	1074.2	1081.0	1075.9	1072.6	1073.4
22.5°	980.3	984.5	981.1	987.9	991.3	995.5	1000.6	1006.5	1002.3	993.0	1004.0
25°	884.6	887.2	898.2	897.3	902.4	912.6	920.2	920.2	920.2	919.3	919.3
27.5°	764.4	762.7	776.3	785.6	798.3	814.4	824.5	840.6	843.1	840.6	834.7
30°	635.7	634.0	651.0	662.8	685.7	693.3	721.2	736.5	752.6	751.7	747.5
32.5°	502.0	505.4	518.9	535.9	554.5	578.2	604.4	638.3	652.7	656.1	648.4
35°	373.3	378.4	391.1	405.5	428.3	454.6	491.0	523.2	547.7	547.7	541.8
37.5°	269.2	270.9	282.7	292.1	315.8	339.5	370.8	414.8	430.0	436.0	430.0
40°	183.7	183.7	190.5	200.6	220.1	240.4	269.2	302.2	324.2	333.5	323.4
42.5°	116.8	118.5	123.6	130.4	144.8	162.5	184.5	209.1	225.2	231.9	222.6
45°	70.3	72.0	76.2	81.3	90.6	101.6	116.8	134.6	148.1	154.1	149.8
47.5°	42.3	44.0	45.7	49.1	55.9	63.5	71.1	81.3	89.7	90.6	88.9
50°	24.5	24.5	26.2	28.8	32.2	36.4	40.6	46.6	49.1	52.5	49.1
52.5°	16.1	16.1	16.1	16.9	18.6	20.3	22.0	25.4	27.1	27.1	26.2
55°	11.9	11.9	11.9	11.9	12.7	12.7	12.7	13.5	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°	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4	1343.4
2.5°	1346.8	1342.6	1342.6	1342.6	1340.9	1342.6	1345.1	1340.9
5°	1332.4	1334.1	1326.5	1332.4	1335.0	1330.7	1340.9	1332.4
7.5°	1319.7	1317.2	1305.3	1313.8	1318.9	1320.6	1319.7	1313.0
10°	1294.3	1288.4	1283.3	1283.3	1281.6	1280.8	1290.1	1286.7
12.5°	1248.6	1252.9	1245.2	1249.5	1246.1	1246.9	1247.8	1246.1
15°	1209.7	1205.5	1195.3	1202.1	1197.8	1193.6	1202.1	1189.4
17.5°	1148.7	1147.9	1142.0	1137.7	1139.4	1138.6	1142.8	1136.9
20°	1076.8	1078.5	1075.1	1073.4	1070.9	1064.9	1070.0	1063.2
22.5°	998.9	1000.6	1004.0	997.2	998.1	989.6	997.2	989.6
25°	920.2	919.3	915.1	911.7	902.4	893.1	891.4	885.5
27.5°	833.8	827.9	817.7	806.7	792.4	779.7	778.8	774.6
30°	739.0	726.3	707.7	689.9	667.9	648.4	648.4	641.7
32.5°	639.1	610.3	585.0	562.9	534.2	523.2	512.1	506.2
35°	519.8	494.4	463.9	427.5	414.0	386.9	388.6	375.0
37.5°	407.2	375.9	347.1	317.4	293.7	281.0	274.3	267.5
40°	302.2	271.7	240.4	220.9	199.8	188.8	184.5	182.9
42.5°	206.6	181.2	160.8	144.8	133.8	121.9	118.5	116.8
45°	134.6	120.2	101.6	88.9	81.3	74.5	74.5	72.0
47.5°	80.4	71.1	61.8	53.3	48.3	44.0	42.3	41.5
50°	44.9	39.8	34.7	31.3	27.9	25.4	24.5	24.5
52.5°	24.5	22.0	20.3	17.8	16.1	16.1	16.1	15.2
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)