

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: P209319

Luminaire Tested: **LDSQ6B15D010 EU6B10208040 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209319
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 EU6B10208040 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: 1506.9 lumens
Efficiency: N/A
Efficacy: 104.7 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

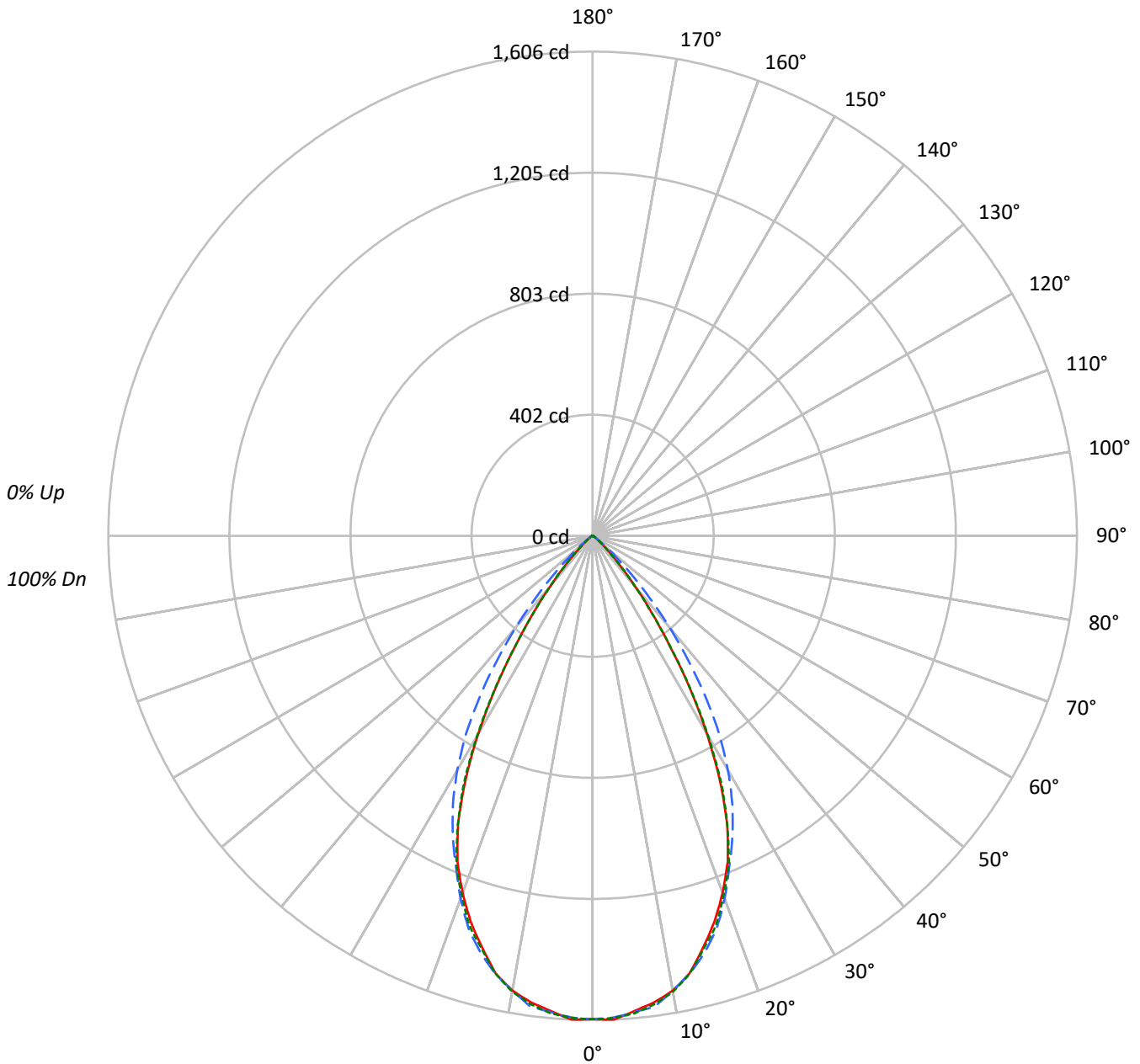
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	150.1	10.0
10°-20°	399.3	26.5
20°-30°	490.1	32.5
30°-40°	338.3	22.5
40°-50°	105.8	7.0
50°-60°	16.5	1.1
60°-70°	4.8	0.3
70°-80°	1.6	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°	1039.5	69.0
0°-40°	1377.9	91.4
0°-60°	1500.2	99.6
0°-90°	1506.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1506.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1582	1588	1586	1587	1590	150
15°	1415	1435	1433	1431	1420	396
25°	1056	1083	1097	1090	1057	473
35°	446	527	654	532	448	285
45°	84	115	184	114	86	75
55°	14	15	17	15	13	14
65°	4	5	4	5	4	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°	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5
2.5°	1606.5	1584.3	1598.5	1595.4	1603.5	1608.6	1603.5	1612.6	1606.5	1599.5	1601.5
5°	1582.3	1585.3	1584.3	1586.3	1588.4	1588.4	1598.5	1599.5	1601.5	1586.3	1590.4
7.5°	1561.1	1561.1	1566.1	1564.1	1571.2	1569.2	1570.2	1578.3	1579.3	1575.2	1572.2
10°	1531.8	1527.7	1522.7	1522.7	1531.8	1532.8	1540.9	1541.9	1547.9	1531.8	1533.8
12.5°	1486.3	1484.3	1476.2	1480.2	1487.3	1483.3	1496.4	1497.4	1495.4	1488.3	1492.4
15°	1414.6	1422.7	1420.6	1419.6	1435.8	1433.8	1432.8	1435.8	1436.8	1432.8	1429.7
17.5°	1342.8	1349.9	1350.9	1352.9	1356.0	1359.0	1363.0	1374.2	1370.1	1367.1	1377.2
20°	1260.0	1256.9	1265.0	1273.1	1276.1	1276.1	1282.2	1290.3	1284.2	1280.2	1281.2
22.5°	1170.1	1175.1	1171.1	1179.1	1183.2	1188.2	1194.3	1201.4	1196.3	1185.2	1198.3
25°	1055.9	1058.9	1072.0	1071.0	1077.1	1089.2	1098.3	1098.3	1098.3	1097.3	1097.3
27.5°	912.4	910.4	926.5	937.7	952.8	972.0	984.1	1003.3	1006.4	1003.3	996.3
30°	758.8	756.8	777.0	791.1	818.4	827.5	860.9	879.1	898.3	897.2	892.2
32.5°	599.2	603.2	619.4	639.6	661.8	690.1	721.4	761.8	779.0	783.1	774.0
35°	445.6	451.7	466.8	484.0	511.3	542.6	586.0	624.4	653.7	653.7	646.7
37.5°	321.3	323.3	337.5	348.6	376.9	405.2	442.6	495.1	513.3	520.4	513.3
40°	219.3	219.3	227.3	239.5	262.7	287.0	321.3	360.7	387.0	398.1	386.0
42.5°	139.4	141.5	147.5	155.6	172.8	194.0	220.3	249.6	268.8	276.9	265.7
45°	83.9	85.9	90.9	97.0	108.1	121.2	139.4	160.7	176.8	183.9	178.8
47.5°	50.5	52.5	54.6	58.6	66.7	75.8	84.9	97.0	107.1	108.1	106.1
50°	29.3	29.3	31.3	34.4	38.4	43.4	48.5	55.6	58.6	62.6	58.6
52.5°	19.2	19.2	19.2	20.2	22.2	24.2	26.3	30.3	32.3	32.3	31.3
55°	14.1	14.1	14.1	14.1	15.2	15.2	15.2	16.2	17.2	17.2	17.2
57.5°	10.1	10.1	10.1	11.1	11.1	11.1	10.1	10.1	10.1	10.1	10.1
60°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	7.1	7.1	7.1
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
65°	4.0	4.0	4.0	5.1	5.1	5.1	5.1	4.0	4.0	4.0	4.0
67.5°	3.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0
70°	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5	1603.5
2.5°	1607.6	1602.5	1602.5	1602.5	1600.5	1602.5	1605.5	1600.5
5°	1590.4	1592.4	1583.3	1590.4	1593.4	1588.4	1600.5	1590.4
7.5°	1575.2	1572.2	1558.0	1568.2	1574.2	1576.2	1575.2	1567.1
10°	1544.9	1537.8	1531.8	1531.8	1529.8	1528.7	1539.9	1535.8
12.5°	1490.3	1495.4	1486.3	1491.4	1487.3	1488.3	1489.3	1487.3
15°	1443.9	1438.8	1426.7	1434.8	1429.7	1424.7	1434.8	1419.6
17.5°	1371.1	1370.1	1363.0	1358.0	1360.0	1359.0	1364.0	1357.0
20°	1285.2	1287.3	1283.2	1281.2	1278.2	1271.1	1277.2	1269.1
22.5°	1192.3	1194.3	1198.3	1190.3	1191.3	1181.2	1190.3	1181.2
25°	1098.3	1097.3	1092.2	1088.2	1077.1	1066.0	1064.0	1056.9
27.5°	995.3	988.2	976.1	962.9	945.7	930.6	929.6	924.5
30°	882.1	866.9	844.7	823.5	797.2	774.0	774.0	765.9
32.5°	762.9	728.5	698.2	671.9	637.6	624.4	611.3	604.2
35°	620.4	590.1	553.7	510.3	494.1	461.8	463.8	447.6
37.5°	486.0	448.6	414.3	378.9	350.6	335.5	327.4	319.3
40°	360.7	324.3	287.0	263.7	238.5	225.3	220.3	218.2
42.5°	246.5	216.2	192.0	172.8	159.6	145.5	141.5	139.4
45°	160.7	143.5	121.2	106.1	97.0	88.9	88.9	85.9
47.5°	96.0	84.9	73.8	63.7	57.6	52.5	50.5	49.5
50°	53.6	47.5	41.4	37.4	33.3	30.3	29.3	29.3
52.5°	29.3	26.3	24.2	21.2	19.2	19.2	19.2	18.2
55°	15.2	15.2	15.2	15.2	14.1	14.1	14.1	13.1
57.5°	10.1	10.1	11.1	11.1	11.1	10.1	10.1	10.1
60°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
65°	4.0	5.1	5.1	5.1	5.1	4.0	4.0	4.0
67.5°	3.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	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)