

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: P209320

Luminaire Tested: **LDSQ6B15D010 EU6B10208050 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209320
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 EU6B10208050 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: 1506.0 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

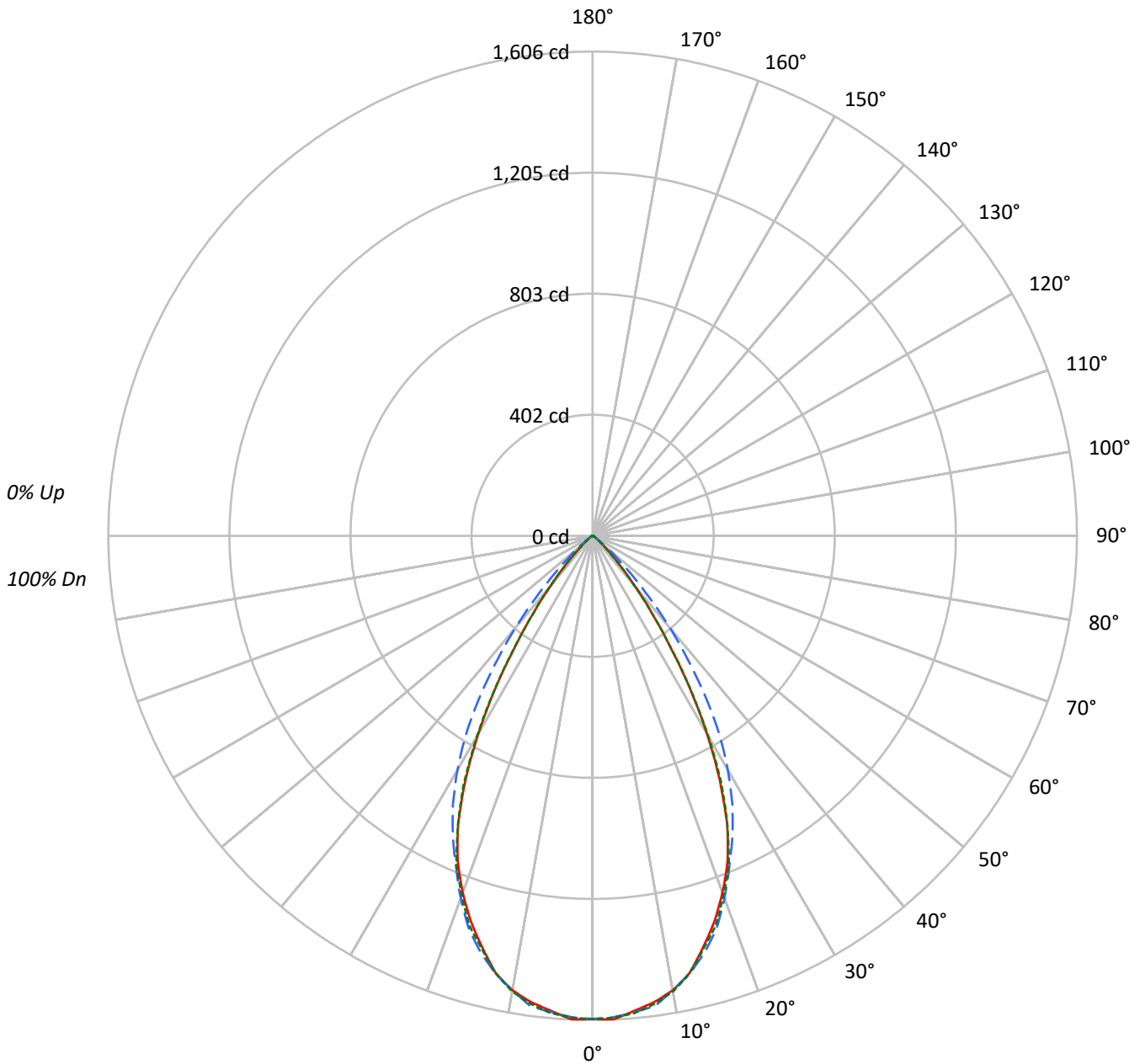
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	150.0	10.0
10°-20°	399.1	26.5
20°-30°	489.8	32.5
30°-40°	338.1	22.5
40°-50°	105.7	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°	1039.0	69.0
0°-40°	1377.1	91.4
0°-60°	1499.4	99.6
0°-90°	1506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1603	1603	1603	1603	1603	
5°	1582	1588	1586	1586	1590	150
15°	1414	1434	1432	1430	1419	395
25°	1055	1083	1097	1090	1056	473
35°	445	527	653	532	447	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°	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7
2.5°	1605.7	1583.5	1597.6	1594.6	1602.7	1607.7	1602.7	1611.8	1605.7	1598.6	1600.7
5°	1581.5	1584.5	1583.5	1585.5	1587.5	1587.5	1597.6	1598.6	1600.7	1585.5	1589.5
7.5°	1560.3	1560.3	1565.3	1563.3	1570.4	1568.3	1569.3	1577.4	1578.4	1574.4	1571.4
10°	1531.0	1526.9	1521.9	1521.9	1531.0	1532.0	1540.1	1541.1	1547.1	1531.0	1533.0
12.5°	1485.5	1483.5	1475.4	1479.5	1486.5	1482.5	1495.6	1496.6	1494.6	1487.5	1491.6
15°	1413.8	1421.9	1419.9	1418.9	1435.0	1433.0	1432.0	1435.0	1436.0	1432.0	1429.0
17.5°	1342.1	1349.2	1350.2	1352.2	1355.3	1358.3	1362.3	1373.4	1369.4	1366.4	1376.5
20°	1259.3	1256.3	1264.4	1272.4	1275.5	1275.5	1281.5	1289.6	1283.6	1279.5	1280.5
22.5°	1169.4	1174.5	1170.4	1178.5	1182.6	1187.6	1193.7	1200.7	1195.7	1184.6	1197.7
25°	1055.3	1058.3	1071.5	1070.5	1076.5	1088.6	1097.7	1097.7	1097.7	1096.7	1096.7
27.5°	911.9	909.9	926.1	937.2	952.3	971.5	983.6	1002.8	1005.8	1002.8	995.7
30°	758.4	756.4	776.6	790.7	818.0	827.1	860.4	878.6	897.8	896.8	891.7
32.5°	598.9	602.9	619.1	639.3	661.5	689.7	721.1	761.4	778.6	782.7	773.6
35°	445.4	451.4	466.6	483.7	511.0	542.3	585.7	624.1	653.4	653.4	646.3
37.5°	321.1	323.2	337.3	348.4	376.7	405.0	442.3	494.8	513.0	520.1	513.0
40°	219.1	219.1	227.2	239.3	262.6	286.8	321.1	360.5	386.8	397.9	385.8
42.5°	139.4	141.4	147.4	155.5	172.7	193.9	220.2	249.4	268.6	276.7	265.6
45°	83.8	85.8	90.9	96.9	108.1	121.2	139.4	160.6	176.7	183.8	178.7
47.5°	50.5	52.5	54.5	58.6	66.7	75.7	84.8	96.9	107.0	108.1	106.0
50°	29.3	29.3	31.3	34.3	38.4	43.4	48.5	55.5	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	15.1	15.1	15.1	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	5.0	5.0	5.0	5.0	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°	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7	1602.7
2.5°	1606.7	1601.7	1601.7	1601.7	1599.6	1601.7	1604.7	1599.6
5°	1589.5	1591.6	1582.5	1589.5	1592.6	1587.5	1599.6	1589.5
7.5°	1574.4	1571.4	1557.2	1567.3	1573.4	1575.4	1574.4	1566.3
10°	1544.1	1537.0	1531.0	1531.0	1528.9	1527.9	1539.0	1535.0
12.5°	1489.6	1494.6	1485.5	1490.6	1486.5	1487.5	1488.6	1486.5
15°	1443.1	1438.1	1425.9	1434.0	1429.0	1423.9	1434.0	1418.9
17.5°	1370.4	1369.4	1362.3	1357.3	1359.3	1358.3	1363.3	1356.3
20°	1284.6	1286.6	1282.5	1280.5	1277.5	1270.4	1276.5	1268.4
22.5°	1191.7	1193.7	1197.7	1189.6	1190.6	1180.5	1189.6	1180.5
25°	1097.7	1096.7	1091.7	1087.6	1076.5	1065.4	1063.4	1056.3
27.5°	994.7	987.7	975.5	962.4	945.2	930.1	929.1	924.0
30°	881.6	866.5	844.3	823.0	796.8	773.6	773.6	765.5
32.5°	762.5	728.1	697.8	671.6	637.2	624.1	611.0	603.9
35°	620.1	589.8	553.4	510.0	493.8	461.5	463.5	447.4
37.5°	485.7	448.4	414.0	378.7	350.4	335.3	327.2	319.1
40°	360.5	324.2	286.8	263.6	238.3	225.2	220.2	218.1
42.5°	246.4	216.1	191.9	172.7	159.6	145.4	141.4	139.4
45°	160.6	143.4	121.2	106.0	96.9	88.9	88.9	85.8
47.5°	95.9	84.8	73.7	63.6	57.6	52.5	50.5	49.5
50°	53.5	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°	15.1	15.1	15.1	15.1	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	5.0	5.0	5.0	5.0	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)