

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: P209308

Luminaire Tested: **LDSQ6B10D010 EU6B10208050 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209308
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: LDSQ6B10D010 EU6B10208050 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-10.05 W DE010-10.58 W D5LT-10.2 W DMX-10.6 W DL2-11.8 W
DL3-11.1 W DLE-11.39 W
Light Source: HIGH LUMEN LED 5000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1089.3 lumens
Efficiency: N/A
Efficacy: 108.4 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

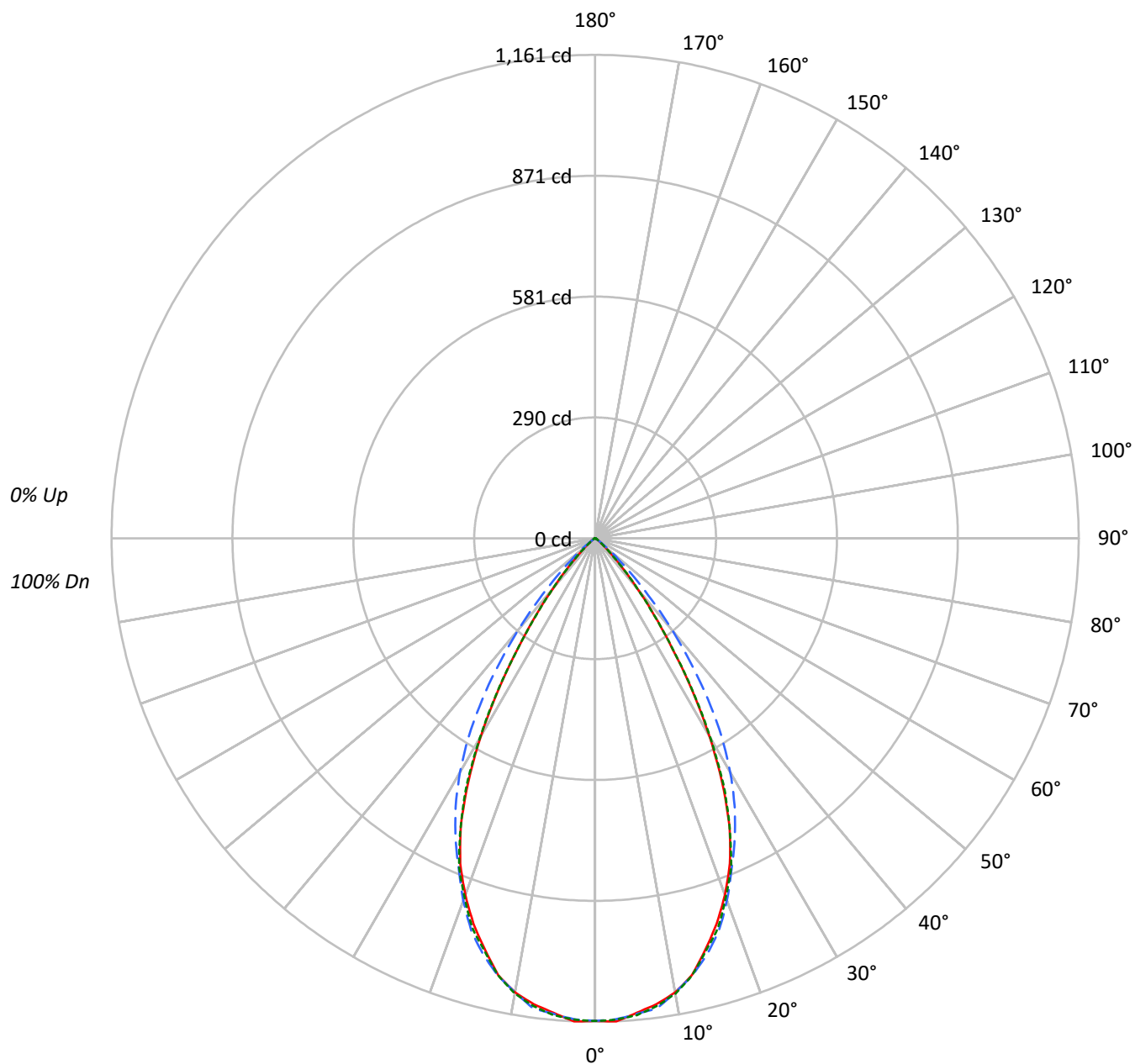
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					0
RW	70	50	30	10		70	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			100
1	113	111	108	106		111	108	106	104		104	103	101			101	99	98			93
2	108	103	99	95		106	101	97	94		98	95	92			95	92	90			87
3	102	96	91	87		100	94	90	86		92	88	85			89	86	83			80
4	97	89	84	79		95	88	83	79		86	81	78			84	80	77			75
5	92	83	78	73		90	82	77	73		81	76	72			79	75	72			69
6	87	78	72	68		86	77	72	67		76	71	67			74	70	67			65
7	83	73	67	63		81	73	67	63		71	66	62			70	66	62			60
8	79	69	63	59		77	68	63	59		67	62	58			66	62	58			56
9	75	65	59	55		74	64	59	55		64	58	55			63	58	54			53
10	71	61	55	52		70	61	55	51		60	55	51			59	55	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°	108.5	10.0
10°-20°	288.7	26.5
20°-30°	354.3	32.5
30°-40°	244.6	22.5
40°-50°	76.5	7.0
50°-60°	11.9	1.1
60°-70°	3.5	0.3
70°-80°	1.1	0.1
80°-90°	0.2	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°	751.5	69.0
0°-40°	996.1	91.4
0°-60°	1084.5	99.6
0°-90°	1089.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1144	1148	1147	1147	1150	108
15°	1023	1037	1036	1034	1026	286
25°	763	783	793	788	764	342
35°	322	381	473	385	324	206
45°	61	83	133	82	62	54
55°	10	11	12	11	10	10
65°	3	4	3	4	3	3
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°	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2
2.5°	1161.4	1145.3	1155.5	1153.4	1159.2	1162.9	1159.2	1165.8	1161.4	1156.3	1157.7
5°	1143.9	1146.1	1145.3	1146.8	1148.2	1148.2	1155.5	1156.3	1157.7	1146.8	1149.7
7.5°	1128.5	1128.5	1132.2	1130.7	1135.8	1134.4	1135.1	1140.9	1141.7	1138.7	1136.6
10°	1107.3	1104.4	1100.8	1100.8	1107.3	1108.1	1113.9	1114.6	1119.0	1107.3	1108.8
12.5°	1074.5	1073.0	1067.2	1070.1	1075.2	1072.3	1081.8	1082.5	1081.0	1075.9	1078.9
15°	1022.6	1028.5	1027.0	1026.3	1037.9	1036.5	1035.8	1037.9	1038.7	1035.8	1033.6
17.5°	970.7	975.9	976.6	978.1	980.2	982.4	985.4	993.4	990.5	988.3	995.6
20°	910.9	908.7	914.5	920.3	922.5	922.5	926.9	932.8	928.4	925.5	926.2
22.5°	845.8	849.5	846.6	852.4	855.3	859.0	863.4	868.5	864.8	856.8	866.3
25°	763.3	765.5	775.0	774.3	778.6	787.4	794.0	794.0	794.0	793.3	793.3
27.5°	659.6	658.1	669.8	677.8	688.8	702.7	711.4	725.3	727.5	725.3	720.2
30°	548.6	547.1	561.7	571.9	591.7	598.2	622.3	635.5	649.4	648.6	645.0
32.5°	433.1	436.1	447.8	462.4	478.4	498.9	521.5	550.7	563.2	566.1	559.5
35°	322.1	326.5	337.5	349.9	369.6	392.2	423.7	451.4	472.6	472.6	467.5
37.5°	232.3	233.7	244.0	252.0	272.5	292.9	319.9	357.9	371.1	376.2	371.1
40°	158.5	158.5	164.3	173.1	189.9	207.4	232.3	260.8	279.8	287.8	279.0
42.5°	100.8	102.3	106.6	112.5	124.9	140.2	159.2	180.4	194.3	200.1	192.1
45°	60.6	62.1	65.7	70.1	78.2	87.7	100.8	116.1	127.8	132.9	129.3
47.5°	36.5	38.0	39.4	42.4	48.2	54.8	61.4	70.1	77.4	78.2	76.7
50°	21.2	21.2	22.6	24.8	27.8	31.4	35.1	40.2	42.4	45.3	42.4
52.5°	13.9	13.9	13.9	14.6	16.1	17.5	19.0	21.9	23.4	23.4	22.6
55°	10.2	10.2	10.2	10.2	11.0	11.0	11.0	11.7	12.4	12.4	12.4
57.5°	7.3	7.3	7.3	8.0	8.0	8.0	7.3	7.3	7.3	7.3	7.3
60°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.1	5.1	5.1
62.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
65°	2.9	2.9	2.9	3.7	3.7	3.7	3.7	2.9	2.9	2.9	2.9
67.5°	2.2	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.2	2.2	2.2
70°	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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°	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2	1159.2
2.5°	1162.1	1158.5	1158.5	1158.5	1157.0	1158.5	1160.7	1157.0
5°	1149.7	1151.2	1144.6	1149.7	1151.9	1148.2	1157.0	1149.7
7.5°	1138.7	1136.6	1126.3	1133.6	1138.0	1139.5	1138.7	1132.9
10°	1116.8	1111.7	1107.3	1107.3	1105.9	1105.1	1113.2	1110.3
12.5°	1077.4	1081.0	1074.5	1078.1	1075.2	1075.9	1076.7	1075.2
15°	1043.8	1040.1	1031.4	1037.2	1033.6	1029.9	1037.2	1026.3
17.5°	991.2	990.5	985.4	981.7	983.2	982.4	986.1	981.0
20°	929.1	930.6	927.7	926.2	924.0	918.9	923.3	917.4
22.5°	861.9	863.4	866.3	860.5	861.2	853.9	860.5	853.9
25°	794.0	793.3	789.6	786.7	778.6	770.6	769.1	764.0
27.5°	719.5	714.4	705.6	696.1	683.7	672.7	672.0	668.3
30°	637.7	626.7	610.6	595.3	576.3	559.5	559.5	553.7
32.5°	551.5	526.6	504.7	485.7	460.9	451.4	441.9	436.8
35°	448.5	426.6	400.3	368.9	357.2	333.8	335.3	323.6
37.5°	351.3	324.3	299.5	273.9	253.5	242.5	236.7	230.8
40°	260.8	234.5	207.4	190.6	172.4	162.9	159.2	157.8
42.5°	178.2	156.3	138.8	124.9	115.4	105.2	102.3	100.8
45°	116.1	103.7	87.7	76.7	70.1	64.3	64.3	62.1
47.5°	69.4	61.4	53.3	46.0	41.6	38.0	36.5	35.8
50°	38.7	34.3	29.9	27.0	24.1	21.9	21.2	21.2
52.5°	21.2	19.0	17.5	15.3	13.9	13.9	13.9	13.1
55°	11.0	11.0	11.0	11.0	10.2	10.2	10.2	9.5
57.5°	7.3	7.3	8.0	8.0	8.0	7.3	7.3	7.3
60°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
62.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
65°	2.9	3.7	3.7	3.7	3.7	2.9	2.9	2.9
67.5°	2.2	2.9	2.9	2.9	2.2	2.2	2.2	2.2
70°	2.2	2.2	2.2	2.2	2.2	1.5	1.5	1.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	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)