

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: P209327

Luminaire Tested: **LDSQ6B15D010 EU6B10209727 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209327
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 EU6B10209727 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 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1038.7 lumens
Efficiency: N/A
Efficacy: 72.2 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

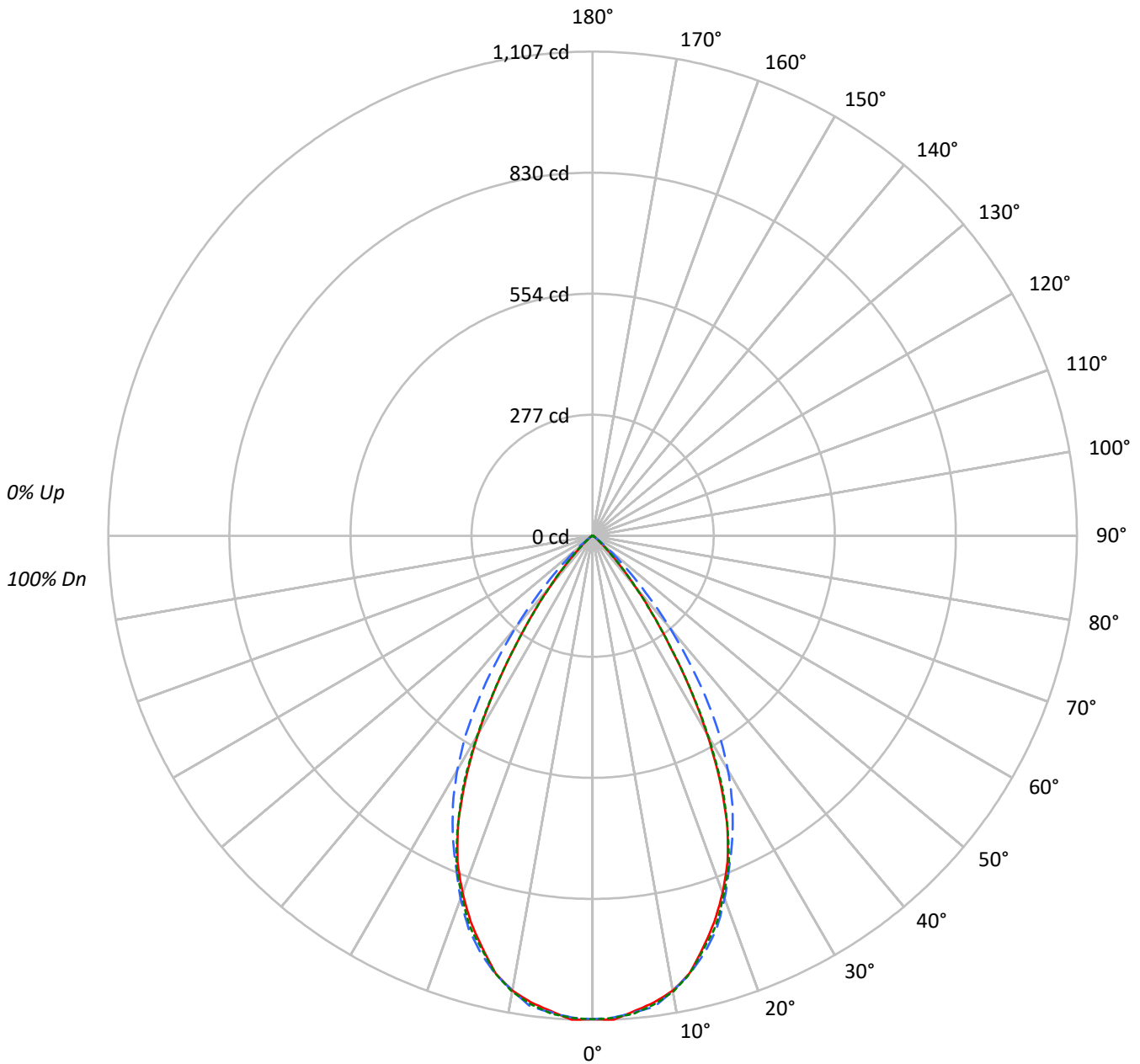
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	103.5	10.0
10°-20°	275.3	26.5
20°-30°	337.8	32.5
30°-40°	233.2	22.5
40°-50°	72.9	7.0
50°-60°	11.4	1.1
60°-70°	3.3	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°	716.6	69.0
0°-40°	949.8	91.4
0°-60°	1034.1	99.6
0°-90°	1038.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1091	1095	1094	1094	1096	103
15°	975	989	988	986	979	273
25°	728	747	756	752	728	326
35°	307	363	451	367	308	196
45°	58	79	127	78	59	52
55°	10	10	12	10	9	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3
2.5°	1107.4	1092.1	1101.8	1099.7	1105.3	1108.8	1105.3	1111.6	1107.4	1102.5	1103.9
5°	1090.7	1092.8	1092.1	1093.5	1094.9	1094.9	1101.8	1102.5	1103.9	1093.5	1096.3
7.5°	1076.1	1076.1	1079.5	1078.2	1083.0	1081.6	1082.3	1087.9	1088.6	1085.8	1083.7
10°	1055.9	1053.1	1049.6	1049.6	1055.9	1056.6	1062.1	1062.8	1067.0	1055.9	1057.3
12.5°	1024.5	1023.1	1017.6	1020.3	1025.2	1022.4	1031.5	1032.2	1030.8	1025.9	1028.7
15°	975.1	980.6	979.3	978.6	989.7	988.3	987.6	989.7	990.4	987.6	985.5
17.5°	925.6	930.5	931.2	932.6	934.7	936.8	939.6	947.2	944.4	942.3	949.3
20°	868.5	866.4	872.0	877.6	879.7	879.7	883.8	889.4	885.2	882.4	883.1
22.5°	806.5	810.0	807.2	812.8	815.6	819.1	823.2	828.1	824.6	817.0	826.0
25°	727.8	729.9	739.0	738.3	742.5	750.8	757.1	757.1	757.1	756.4	756.4
27.5°	628.9	627.5	638.7	646.3	656.8	670.0	678.4	691.6	693.7	691.6	686.7
30°	523.1	521.7	535.6	545.3	564.2	570.4	593.4	605.9	619.2	618.5	615.0
32.5°	413.0	415.8	426.9	440.9	456.2	475.7	497.3	525.1	537.0	539.8	533.5
35°	307.1	311.3	321.8	333.6	352.4	374.0	404.0	430.4	450.6	450.6	445.7
37.5°	221.5	222.9	232.6	240.3	259.8	279.3	305.1	341.3	353.8	358.7	353.8
40°	151.1	151.1	156.7	165.1	181.1	197.8	221.5	248.6	266.8	274.4	266.1
42.5°	96.1	97.5	101.7	107.3	119.1	133.7	151.8	172.0	185.3	190.8	183.2
45°	57.8	59.2	62.7	66.9	74.5	83.6	96.1	110.7	121.9	126.8	123.3
47.5°	34.8	36.2	37.6	40.4	46.0	52.2	58.5	66.9	73.8	74.5	73.1
50°	20.2	20.2	21.6	23.7	26.5	29.9	33.4	38.3	40.4	43.2	40.4
52.5°	13.2	13.2	13.2	13.9	15.3	16.7	18.1	20.9	22.3	22.3	21.6
55°	9.8	9.8	9.8	9.8	10.4	10.4	10.4	11.1	11.8	11.8	11.8
57.5°	7.0	7.0	7.0	7.7	7.7	7.7	7.0	7.0	7.0	7.0	7.0
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.9	4.9	4.9
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	2.8	2.8	2.8	3.5	3.5	3.5	3.5	2.8	2.8	2.8	2.8
67.5°	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.1	2.1	2.1
70°	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3	1105.3
2.5°	1108.1	1104.6	1104.6	1104.6	1103.2	1104.6	1106.7	1103.2
5°	1096.3	1097.7	1091.4	1096.3	1098.4	1094.9	1103.2	1096.3
7.5°	1085.8	1083.7	1074.0	1080.9	1085.1	1086.5	1085.8	1080.2
10°	1064.9	1060.0	1055.9	1055.9	1054.5	1053.8	1061.4	1058.7
12.5°	1027.3	1030.8	1024.5	1028.0	1025.2	1025.9	1026.6	1025.2
15°	995.3	991.8	983.4	989.0	985.5	982.0	989.0	978.6
17.5°	945.1	944.4	939.6	936.1	937.5	936.8	940.3	935.4
20°	885.9	887.3	884.5	883.1	881.1	876.2	880.4	874.8
22.5°	821.9	823.2	826.0	820.5	821.2	814.2	820.5	814.2
25°	757.1	756.4	752.9	750.1	742.5	734.8	733.4	728.5
27.5°	686.0	681.2	672.8	663.7	651.9	641.5	640.8	637.3
30°	608.0	597.6	582.3	567.6	549.5	533.5	533.5	527.9
32.5°	525.8	502.2	481.3	463.2	439.5	430.4	421.4	416.5
35°	427.6	406.7	381.7	351.7	340.6	318.3	319.7	308.5
37.5°	335.0	309.2	285.6	261.2	241.7	231.2	225.7	220.1
40°	248.6	223.6	197.8	181.8	164.4	155.3	151.8	150.4
42.5°	169.9	149.0	132.3	119.1	110.0	100.3	97.5	96.1
45°	110.7	98.9	83.6	73.1	66.9	61.3	61.3	59.2
47.5°	66.2	58.5	50.8	43.9	39.7	36.2	34.8	34.1
50°	36.9	32.7	28.6	25.8	23.0	20.9	20.2	20.2
52.5°	20.2	18.1	16.7	14.6	13.2	13.2	13.2	12.5
55°	10.4	10.4	10.4	10.4	9.8	9.8	9.8	9.1
57.5°	7.0	7.0	7.7	7.7	7.7	7.0	7.0	7.0
60°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	2.8	3.5	3.5	3.5	3.5	2.8	2.8	2.8
67.5°	2.1	2.8	2.8	2.8	2.1	2.1	2.1	2.1
70°	2.1	2.1	2.1	2.1	2.1	1.4	1.4	1.4
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)