

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: P209328

Luminaire Tested: **LDSQ6B15D010 EU6B10209730 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209328
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 EU6B10209730 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 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1085.5 lumens
Efficiency: N/A
Efficacy: 75.4 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

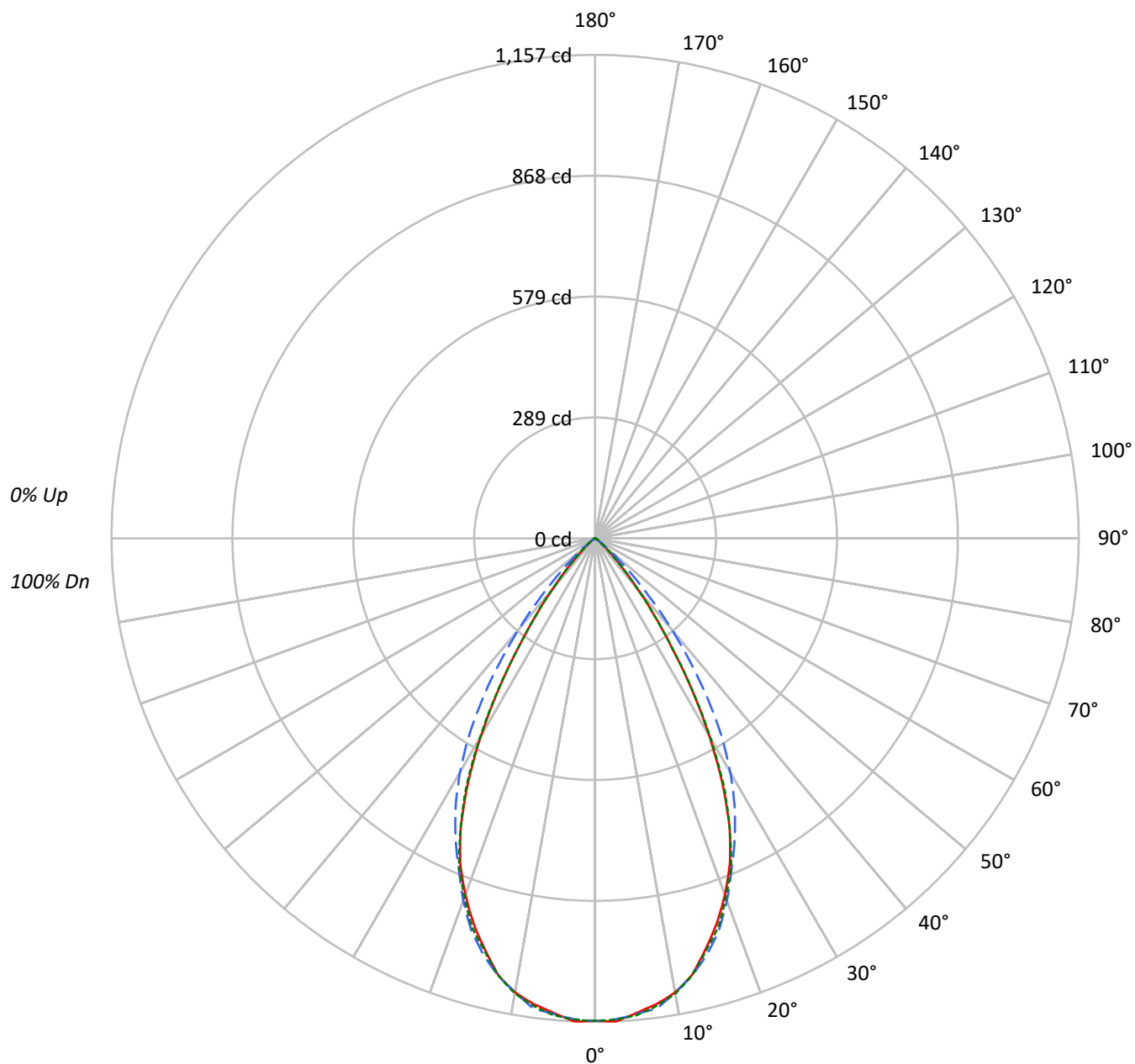
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	81	78		84	80	77		82
5	92	83	78	73	90	82	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	67	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	64	59	55	64	58	55		63	58	54		62
10	71	61	55	52	70	61	55	51	60	55	51		59	55	51		59

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°	108.1	10.0
10°-20°	287.7	26.5
20°-30°	353.1	32.5
30°-40°	243.7	22.5
40°-50°	76.2	7.0
50°-60°	11.9	1.1
60°-70°	3.4	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°	748.9	69.0
0°-40°	992.6	91.4
0°-60°	1080.7	99.6
0°-90°	1085.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1140	1144	1143	1143	1146	108
15°	1019	1034	1032	1031	1023	285
25°	761	780	790	785	761	341
35°	321	380	471	383	322	205
45°	60	83	132	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°	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1
2.5°	1157.3	1141.3	1151.5	1149.3	1155.1	1158.8	1155.1	1161.7	1157.3	1152.2	1153.7
5°	1139.9	1142.0	1141.3	1142.8	1144.2	1144.2	1151.5	1152.2	1153.7	1142.8	1145.7
7.5°	1124.6	1124.6	1128.2	1126.8	1131.8	1130.4	1131.1	1136.9	1137.7	1134.8	1132.6
10°	1103.5	1100.5	1096.9	1096.9	1103.5	1104.2	1110.0	1110.7	1115.1	1103.5	1104.9
12.5°	1070.7	1069.2	1063.4	1066.3	1071.4	1068.5	1078.0	1078.7	1077.3	1072.2	1075.1
15°	1019.0	1024.8	1023.4	1022.7	1034.3	1032.9	1032.1	1034.3	1035.0	1032.1	1029.9
17.5°	967.3	972.4	973.2	974.6	976.8	979.0	981.9	989.9	987.0	984.8	992.1
20°	907.7	905.5	911.3	917.1	919.3	919.3	923.7	929.5	925.1	922.2	922.9
22.5°	842.9	846.5	843.6	849.4	852.3	856.0	860.3	865.4	861.8	853.8	863.3
25°	760.6	762.8	772.3	771.5	775.9	784.6	791.2	791.2	791.2	790.5	790.5
27.5°	657.3	655.8	667.5	675.5	686.4	700.2	709.0	722.8	725.0	722.8	717.7
30°	546.6	545.2	559.7	569.9	589.6	596.1	620.2	633.3	647.1	646.4	642.7
32.5°	431.6	434.5	446.2	460.7	476.8	497.1	519.7	548.8	561.2	564.1	557.6
35°	321.0	325.4	336.3	348.7	368.3	390.9	422.2	449.8	470.9	470.9	465.8
37.5°	231.5	232.9	243.1	251.1	271.5	291.9	318.8	356.7	369.8	374.9	369.8
40°	157.9	157.9	163.8	172.5	189.2	206.7	231.5	259.9	278.8	286.8	278.0
42.5°	100.4	101.9	106.3	112.1	124.5	139.8	158.7	179.8	193.6	199.4	191.4
45°	60.4	61.9	65.5	69.9	77.9	87.3	100.4	115.7	127.4	132.5	128.8
47.5°	36.4	37.8	39.3	42.2	48.0	54.6	61.1	69.9	77.2	77.9	76.4
50°	21.1	21.1	22.6	24.7	27.7	31.3	34.9	40.0	42.2	45.1	42.2
52.5°	13.8	13.8	13.8	14.6	16.0	17.5	18.9	21.8	23.3	23.3	22.6
55°	10.2	10.2	10.2	10.2	10.9	10.9	10.9	11.6	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	3.6	3.6	3.6	3.6	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°	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1	1155.1
2.5°	1158.1	1154.4	1154.4	1154.4	1153.0	1154.4	1156.6	1153.0
5°	1145.7	1147.1	1140.6	1145.7	1147.9	1144.2	1153.0	1145.7
7.5°	1134.8	1132.6	1122.4	1129.7	1134.0	1135.5	1134.8	1128.9
10°	1112.9	1107.8	1103.5	1103.5	1102.0	1101.3	1109.3	1106.4
12.5°	1073.6	1077.3	1070.7	1074.3	1071.4	1072.2	1072.9	1071.4
15°	1040.1	1036.5	1027.8	1033.6	1029.9	1026.3	1033.6	1022.7
17.5°	987.7	987.0	981.9	978.3	979.7	979.0	982.6	977.5
20°	925.9	927.3	924.4	922.9	920.8	915.7	920.0	914.2
22.5°	858.9	860.3	863.3	857.4	858.2	850.9	857.4	850.9
25°	791.2	790.5	786.8	783.9	775.9	767.9	766.5	761.4
27.5°	717.0	711.9	703.1	693.7	681.3	670.4	669.6	666.0
30°	635.4	624.5	608.5	593.2	574.3	557.6	557.6	551.7
32.5°	549.5	524.8	503.0	484.0	459.3	449.8	440.4	435.3
35°	446.9	425.1	398.9	367.6	355.9	332.6	334.1	322.4
37.5°	350.1	323.2	298.4	273.0	252.6	241.7	235.8	230.0
40°	259.9	233.6	206.7	190.0	171.8	162.3	158.7	157.2
42.5°	177.6	155.8	138.3	124.5	115.0	104.8	101.9	100.4
45°	115.7	103.4	87.3	76.4	69.9	64.1	64.1	61.9
47.5°	69.1	61.1	53.1	45.9	41.5	37.8	36.4	35.7
50°	38.6	34.2	29.8	26.9	24.0	21.8	21.1	21.1
52.5°	21.1	18.9	17.5	15.3	13.8	13.8	13.8	13.1
55°	10.9	10.9	10.9	10.9	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	3.6	3.6	3.6	3.6	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)