

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: P209304

Luminaire Tested: **LDSQ6B10D010 EU6B10208027 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209304
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 EU6B10208027 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 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1005.9 lumens
Efficiency: N/A
Efficacy: 100.1 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

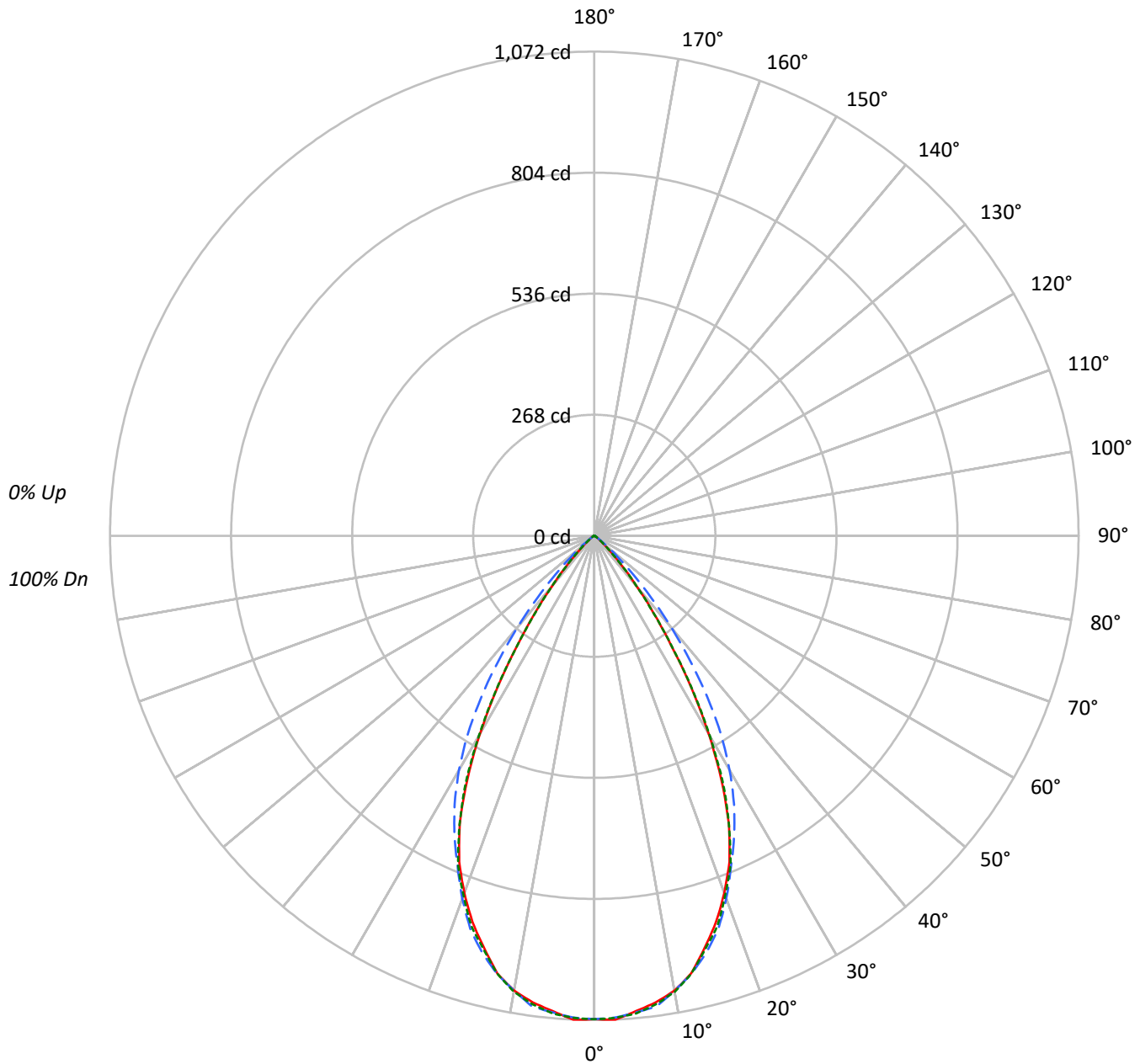
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	100.2	10.0
10°-20°	266.6	26.5
20°-30°	327.2	32.5
30°-40°	225.8	22.5
40°-50°	70.6	7.0
50°-60°	11.0	1.1
60°-70°	3.2	0.3
70°-80°	1.0	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°	693.9	69.0
0°-40°	919.8	91.4
0°-60°	1001.4	99.6
0°-90°	1005.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1005.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1056	1060	1059	1059	1062	100
15°	944	958	956	955	948	264
25°	705	723	732	728	706	316
35°	298	352	436	355	299	190
45°	56	77	123	76	57	50
55°	9	10	12	10	9	9
65°	3	3	3	3	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°	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4
2.5°	1072.4	1057.6	1067.0	1065.0	1070.4	1073.8	1070.4	1076.5	1072.4	1067.7	1069.1
5°	1056.3	1058.3	1057.6	1059.0	1060.3	1060.3	1067.0	1067.7	1069.1	1059.0	1061.7
7.5°	1042.1	1042.1	1045.5	1044.1	1048.8	1047.5	1048.2	1053.6	1054.2	1051.5	1049.5
10°	1022.5	1019.8	1016.5	1016.5	1022.5	1023.2	1028.6	1029.3	1033.3	1022.5	1023.9
12.5°	992.2	990.8	985.4	988.1	992.9	990.2	998.9	999.6	998.2	993.5	996.2
15°	944.3	949.7	948.3	947.7	958.5	957.1	956.4	958.5	959.1	956.4	954.4
17.5°	896.4	901.1	901.8	903.1	905.2	907.2	909.9	917.3	914.6	912.6	919.3
20°	841.1	839.1	844.5	849.9	851.9	851.9	855.9	861.3	857.3	854.6	855.3
22.5°	781.1	784.4	781.7	787.1	789.8	793.2	797.2	802.0	798.6	791.2	799.9
25°	704.8	706.9	715.6	715.0	719.0	727.1	733.2	733.2	733.2	732.5	732.5
27.5°	609.1	607.7	618.5	625.9	636.0	648.9	657.0	669.8	671.8	669.8	665.0
30°	506.5	505.2	518.7	528.1	546.3	552.4	574.7	586.8	599.6	598.9	595.6
32.5°	400.0	402.7	413.5	427.0	441.8	460.7	481.6	508.6	520.0	522.7	516.7
35°	297.5	301.5	311.6	323.1	341.3	362.2	391.2	416.8	436.4	436.4	431.7
37.5°	214.5	215.8	225.3	232.7	251.6	270.5	295.4	330.5	342.6	347.4	342.6
40°	146.4	146.4	151.8	159.9	175.4	191.6	214.5	240.8	258.3	265.7	257.7
42.5°	93.1	94.4	98.5	103.9	115.3	129.5	147.0	166.6	179.4	184.8	177.4
45°	56.0	57.3	60.7	64.8	72.2	80.9	93.1	107.2	118.0	122.8	119.4
47.5°	33.7	35.1	36.4	39.1	44.5	50.6	56.7	64.8	71.5	72.2	70.8
50°	19.6	19.6	20.9	22.9	25.6	29.0	32.4	37.1	39.1	41.8	39.1
52.5°	12.8	12.8	12.8	13.5	14.8	16.2	17.5	20.2	21.6	21.6	20.9
55°	9.4	9.4	9.4	9.4	10.1	10.1	10.1	10.8	11.5	11.5	11.5
57.5°	6.7	6.7	6.7	7.4	7.4	7.4	6.7	6.7	6.7	6.7	6.7
60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	4.7	4.7	4.7
62.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
65°	2.7	2.7	2.7	3.4	3.4	3.4	3.4	2.7	2.7	2.7	2.7
67.5°	2.0	2.0	2.0	2.7	2.7	2.7	2.7	2.7	2.0	2.0	2.0
70°	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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°	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4
2.5°	1073.1	1069.7	1069.7	1069.7	1068.4	1069.7	1071.8	1068.4
5°	1061.7	1063.0	1056.9	1061.7	1063.7	1060.3	1068.4	1061.7
7.5°	1051.5	1049.5	1040.1	1046.8	1050.9	1052.2	1051.5	1046.1
10°	1031.3	1026.6	1022.5	1022.5	1021.2	1020.5	1027.9	1025.2
12.5°	994.9	998.2	992.2	995.6	992.9	993.5	994.2	992.9
15°	963.8	960.5	952.4	957.8	954.4	951.0	957.8	947.7
17.5°	915.3	914.6	909.9	906.5	907.9	907.2	910.6	905.8
20°	858.0	859.3	856.6	855.3	853.2	848.5	852.6	847.2
22.5°	795.9	797.2	799.9	794.6	795.2	788.5	794.6	788.5
25°	733.2	732.5	729.1	726.4	719.0	711.6	710.2	705.5
27.5°	664.4	659.7	651.6	642.8	631.3	621.2	620.5	617.2
30°	588.8	578.7	563.9	549.7	532.2	516.7	516.7	511.3
32.5°	509.2	486.3	466.1	448.5	425.6	416.8	408.1	403.3
35°	414.1	393.9	369.6	340.6	329.8	308.2	309.6	298.8
37.5°	324.4	299.5	276.5	252.9	234.0	223.9	218.5	213.1
40°	240.8	216.5	191.6	176.0	159.2	150.4	147.0	145.7
42.5°	164.6	144.3	128.2	115.3	106.6	97.1	94.4	93.1
45°	107.2	95.8	80.9	70.8	64.8	59.4	59.4	57.3
47.5°	64.1	56.7	49.2	42.5	38.4	35.1	33.7	33.1
50°	35.7	31.7	27.7	25.0	22.3	20.2	19.6	19.6
52.5°	19.6	17.5	16.2	14.2	12.8	12.8	12.8	12.1
55°	10.1	10.1	10.1	10.1	9.4	9.4	9.4	8.8
57.5°	6.7	6.7	7.4	7.4	7.4	6.7	6.7	6.7
60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
62.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
65°	2.7	3.4	3.4	3.4	3.4	2.7	2.7	2.7
67.5°	2.0	2.7	2.7	2.7	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)