

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: P209316

Luminaire Tested: **LDSQ6B10D010 EU6B10209730 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209316
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 EU6B10209730 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 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 784.7 lumens
Efficiency: N/A
Efficacy: 78.1 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

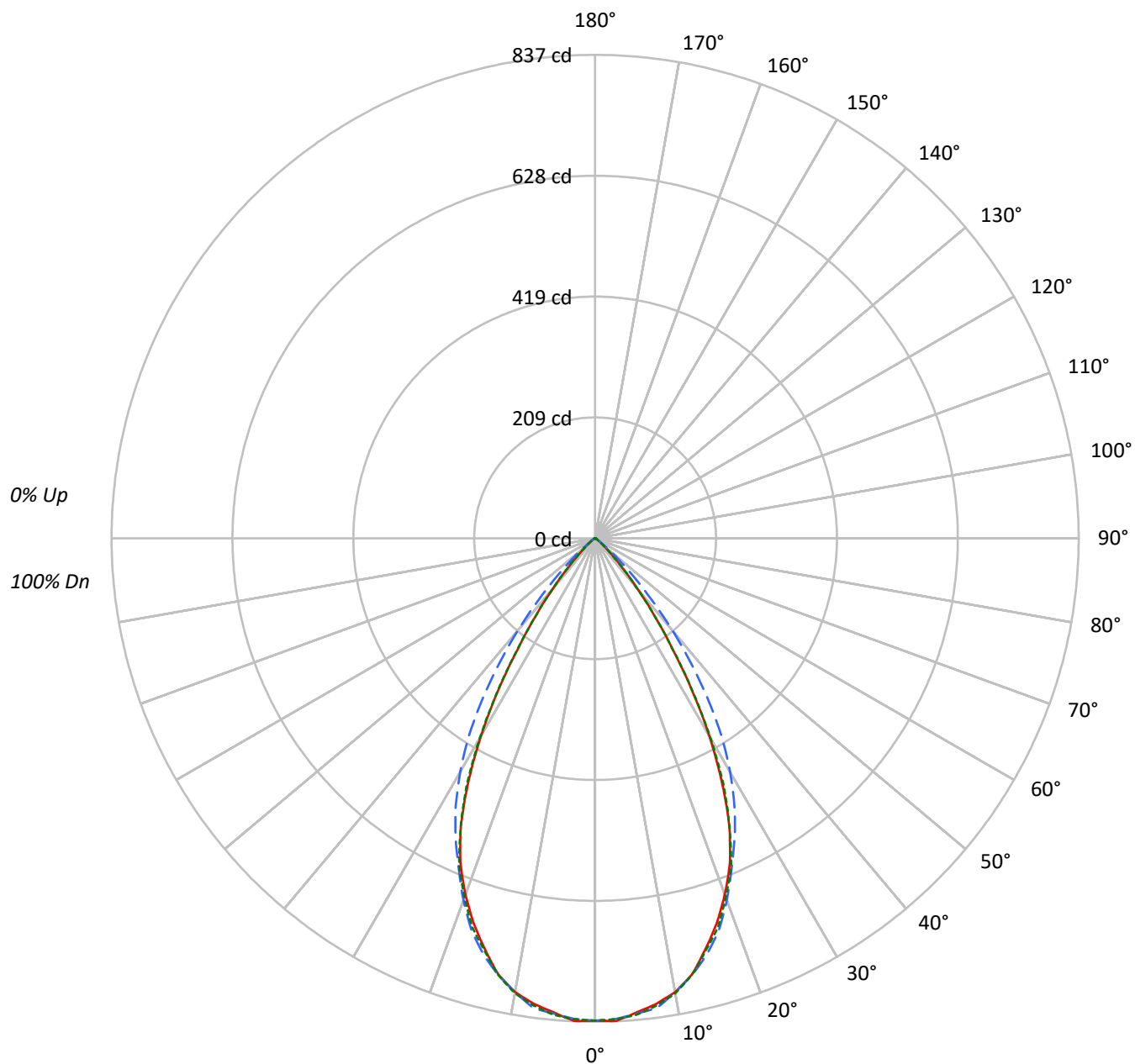
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	78.2	10.0
10°-20°	208.0	26.5
20°-30°	255.2	32.5
30°-40°	176.2	22.5
40°-50°	55.1	7.0
50°-60°	8.6	1.1
60°-70°	2.5	0.3
70°-80°	0.8	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°	541.4	69.0
0°-40°	717.6	91.4
0°-60°	781.2	99.6
0°-90°	784.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	784.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	824	827	826	826	828	78
15°	737	747	746	745	739	206
25°	550	564	571	568	550	246
35°	232	274	340	277	233	148
45°	44	60	96	59	45	39
55°	7	8	9	8	7	7
65°	2	3	2	3	2	2
75°	0	0	0	0	0	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°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	836.6	825.1	832.4	830.9	835.1	837.7	835.1	839.8	836.6	833.0	834.0
5°	824.0	825.6	825.1	826.1	827.2	827.2	832.4	833.0	834.0	826.1	828.2
7.5°	813.0	813.0	815.6	814.5	818.2	817.2	817.7	821.9	822.4	820.3	818.7
10°	797.7	795.6	793.0	793.0	797.7	798.2	802.4	803.0	806.1	797.7	798.8
12.5°	774.0	773.0	768.8	770.9	774.5	772.4	779.3	779.8	778.8	775.1	777.2
15°	736.7	740.9	739.8	739.3	747.7	746.7	746.1	747.7	748.2	746.1	744.6
17.5°	699.3	703.0	703.5	704.6	706.1	707.7	709.8	715.6	713.5	711.9	717.2
20°	656.2	654.6	658.8	663.0	664.6	664.6	667.7	671.9	668.8	666.7	667.2
22.5°	609.3	612.0	609.9	614.1	616.2	618.8	622.0	625.6	623.0	617.2	624.1
25°	549.9	551.4	558.3	557.8	560.9	567.2	572.0	572.0	572.0	571.4	571.4
27.5°	475.1	474.1	482.5	488.3	496.2	506.2	512.5	522.5	524.1	522.5	518.8
30°	395.2	394.1	404.6	412.0	426.2	430.9	448.3	457.8	467.8	467.3	464.6
32.5°	312.0	314.1	322.6	333.1	344.7	359.4	375.7	396.7	405.7	407.8	403.1
35°	232.0	235.2	243.1	252.0	266.3	282.6	305.2	325.2	340.4	340.4	336.8
37.5°	167.3	168.4	175.7	181.5	196.3	211.0	230.5	257.8	267.3	271.0	267.3
40°	114.2	114.2	118.4	124.7	136.8	149.4	167.3	187.8	201.5	207.3	201.0
42.5°	72.6	73.7	76.8	81.0	90.0	101.0	114.7	130.0	140.0	144.2	138.4
45°	43.7	44.7	47.4	50.5	56.3	63.1	72.6	83.7	92.1	95.8	93.1
47.5°	26.3	27.4	28.4	30.5	34.7	39.5	44.2	50.5	55.8	56.3	55.2
50°	15.3	15.3	16.3	17.9	20.0	22.6	25.3	28.9	30.5	32.6	30.5
52.5°	10.0	10.0	10.0	10.5	11.6	12.6	13.7	15.8	16.8	16.8	16.3
55°	7.4	7.4	7.4	7.4	7.9	7.9	7.9	8.4	8.9	8.9	8.9
57.5°	5.3	5.3	5.3	5.8	5.8	5.8	5.3	5.3	5.3	5.3	5.3
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.7	3.7	3.7
62.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	2.1	2.1	2.1	2.6	2.6	2.6	2.6	2.1	2.1	2.1	2.1
67.5°	1.6	1.6	1.6	2.1	2.1	2.1	2.1	2.1	1.6	1.6	1.6
70°	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	837.2	834.5	834.5	834.5	833.5	834.5	836.1	833.5
5°	828.2	829.3	824.5	828.2	829.8	827.2	833.5	828.2
7.5°	820.3	818.7	811.4	816.6	819.8	820.9	820.3	816.1
10°	804.5	800.9	797.7	797.7	796.6	796.1	801.9	799.8
12.5°	776.1	778.8	774.0	776.7	774.5	775.1	775.6	774.5
15°	751.9	749.3	743.0	747.2	744.6	741.9	747.2	739.3
17.5°	714.0	713.5	709.8	707.2	708.2	707.7	710.4	706.7
20°	669.3	670.4	668.3	667.2	665.6	661.9	665.1	660.9
22.5°	620.9	622.0	624.1	619.8	620.4	615.1	619.8	615.1
25°	572.0	571.4	568.8	566.7	560.9	555.1	554.1	550.4
27.5°	518.3	514.6	508.3	501.5	492.5	484.6	484.1	481.5
30°	459.4	451.5	439.9	428.8	415.2	403.1	403.1	398.9
32.5°	397.3	379.4	363.6	349.9	332.0	325.2	318.3	314.7
35°	323.1	307.3	288.4	265.7	257.3	240.5	241.5	233.1
37.5°	253.1	233.6	215.7	197.3	182.6	174.7	170.5	166.3
40°	187.8	168.9	149.4	137.3	124.2	117.3	114.7	113.7
42.5°	128.4	112.6	100.0	90.0	83.1	75.8	73.7	72.6
45°	83.7	74.7	63.1	55.2	50.5	46.3	46.3	44.7
47.5°	50.0	44.2	38.4	33.1	30.0	27.4	26.3	25.8
50°	27.9	24.7	21.6	19.5	17.4	15.8	15.3	15.3
52.5°	15.3	13.7	12.6	11.0	10.0	10.0	10.0	9.5
55°	7.9	7.9	7.9	7.9	7.4	7.4	7.4	6.8
57.5°	5.3	5.3	5.8	5.8	5.8	5.3	5.3	5.3
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
62.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	2.1	2.6	2.6	2.6	2.6	2.1	2.1	2.1
67.5°	1.6	2.1	2.1	2.1	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	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)