

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: P209397

Luminaire Tested: **LDSQ6B70D010 EU6B60708050 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209397
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: LDSQ6B70D010 EU6B60708050 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
D010TE
Light Source: HIGH LUMEN LED 5000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7305.3 lumens
Efficiency: N/A
Efficacy: 91.9 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

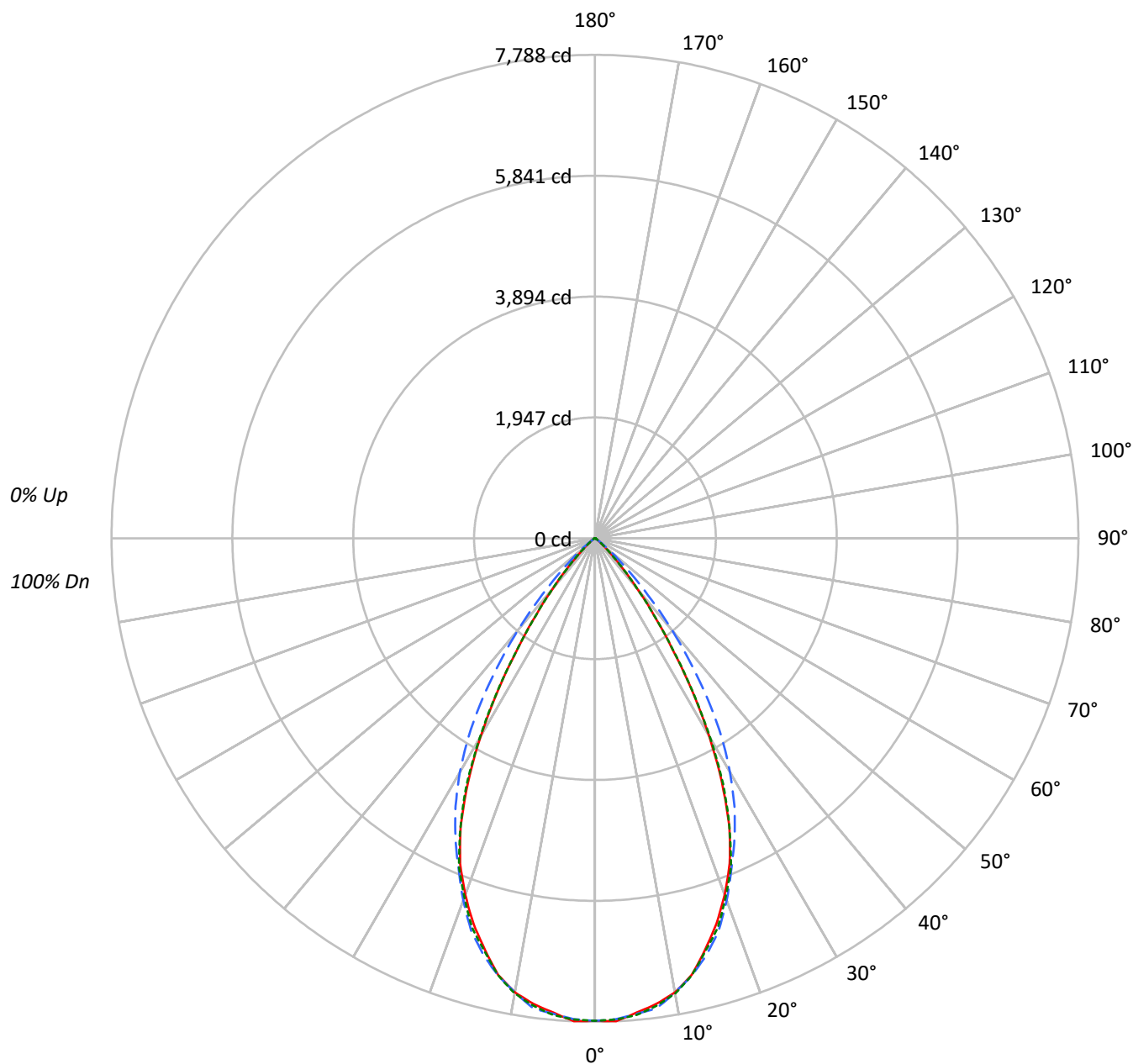
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	727.8	10.0
10°-20°	1936.0	26.5
20°-30°	2376.0	32.5
30°-40°	1640.2	22.5
40°-50°	512.8	7.0
50°-60°	80.1	1.1
60°-70°	23.2	0.3
70°-80°	7.6	0.1
80°-90°	1.7	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°	5039.7	69.0
0°-40°	6679.9	91.4
0°-60°	7272.8	99.6
0°-90°	7305.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7305.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7774	7774	7774	7774	7774	
5°	7671	7700	7690	7693	7710	725
15°	6858	6956	6946	6936	6882	1918
25°	5119	5251	5320	5285	5124	2294
35°	2160	2555	3169	2579	2170	1380
45°	407	556	892	551	416	364
55°	69	74	83	74	64	67
65°	20	24	20	24	20	22
75°	5	5	5	5	5	7
85°	0	0	0	0	0	1
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°	7773.8	7773.8	7773.8	7773.8	7773.8	7773.8	7773.8	7773.8	7773.8	7773.8	7773.8
2.5°	7788.5	7680.7	7749.3	7734.6	7773.8	7798.3	7773.8	7817.9	7788.5	7754.2	7764.0
5°	7670.9	7685.6	7680.7	7690.5	7700.3	7700.3	7749.3	7754.2	7764.0	7690.5	7710.1
7.5°	7568.1	7568.1	7592.5	7582.7	7617.0	7607.2	7612.1	7651.3	7656.2	7636.6	7621.9
10°	7426.0	7406.4	7381.9	7381.9	7426.0	7430.9	7470.1	7475.0	7504.4	7426.0	7435.8
12.5°	7205.6	7195.8	7156.6	7176.2	7210.5	7190.9	7254.6	7259.5	7249.7	7215.4	7235.0
15°	6857.8	6897.0	6887.2	6882.3	6960.7	6950.9	6946.0	6960.7	6965.5	6946.0	6931.3
17.5°	6510.0	6544.3	6549.2	6559.0	6573.7	6588.4	6608.0	6661.8	6642.3	6627.6	6676.5
20°	6108.3	6093.6	6132.8	6172.0	6186.7	6186.7	6216.1	6255.3	6225.9	6206.3	6211.2
22.5°	5672.4	5696.9	5677.3	5716.5	5736.0	5760.5	5789.9	5824.2	5799.7	5745.8	5809.5
25°	5118.8	5133.5	5197.2	5192.3	5221.7	5280.5	5324.6	5324.6	5324.6	5319.7	5319.7
27.5°	4423.3	4413.5	4491.8	4545.7	4619.2	4712.3	4771.1	4864.1	4878.8	4864.1	4829.8
30°	3678.7	3668.9	3766.9	3835.5	3967.7	4011.8	4173.5	4261.6	4354.7	4349.8	4325.3
32.5°	2904.8	2924.4	3002.7	3100.7	3208.5	3345.6	3497.5	3693.4	3776.7	3796.3	3752.2
35°	2160.2	2189.6	2263.1	2346.3	2478.6	2630.5	2841.1	3027.2	3169.3	3169.3	3135.0
37.5°	1557.7	1567.5	1636.1	1690.0	1827.1	1964.3	2145.5	2400.2	2488.4	2522.7	2488.4
40°	1063.0	1063.0	1102.1	1160.9	1273.6	1391.2	1557.7	1748.7	1876.1	1930.0	1871.2
42.5°	676.0	685.8	715.2	754.4	837.6	940.5	1067.9	1209.9	1303.0	1342.2	1288.3
45°	406.6	416.4	440.9	470.2	524.1	587.8	676.0	778.8	857.2	891.5	867.0
47.5°	244.9	254.7	264.5	284.1	323.3	367.4	411.5	470.2	519.2	524.1	514.3
50°	142.1	142.1	151.9	166.5	186.1	210.6	235.1	269.4	284.1	303.7	284.1
52.5°	93.1	93.1	93.1	98.0	107.8	117.6	127.4	147.0	156.7	156.7	151.9
55°	68.6	68.6	68.6	68.6	73.5	73.5	73.5	78.4	83.3	83.3	83.3
57.5°	49.0	49.0	49.0	53.9	53.9	53.9	49.0	49.0	49.0	49.0	49.0
60°	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	34.3	34.3	34.3
62.5°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
65°	19.6	19.6	19.6	24.5	24.5	24.5	24.5	19.6	19.6	19.6	19.6
67.5°	14.7	14.7	14.7	19.6	19.6	19.6	19.6	19.6	14.7	14.7	14.7
70°	9.8	9.8	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
72.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	0.0	0.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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°	7773.8	7773.8	7773.8	7773.8	7773.8	7773.8	7773.8	7773.8
2.5°	7793.4	7768.9	7768.9	7768.9	7759.1	7768.9	7783.6	7759.1
5°	7710.1	7719.9	7675.8	7710.1	7724.8	7700.3	7759.1	7710.1
7.5°	7636.6	7621.9	7553.4	7602.3	7631.7	7641.5	7636.6	7597.4
10°	7489.7	7455.4	7426.0	7426.0	7416.2	7411.3	7465.2	7445.6
12.5°	7225.2	7249.7	7205.6	7230.1	7210.5	7215.4	7220.3	7210.5
15°	6999.8	6975.3	6916.6	6955.8	6931.3	6906.8	6955.8	6882.3
17.5°	6647.2	6642.3	6608.0	6583.5	6593.3	6588.4	6612.9	6578.6
20°	6230.8	6240.6	6221.0	6211.2	6196.5	6162.2	6191.6	6152.4
22.5°	5780.1	5789.9	5809.5	5770.3	5775.2	5726.2	5770.3	5726.2
25°	5324.6	5319.7	5295.2	5275.6	5221.7	5167.8	5158.0	5123.7
27.5°	4824.9	4790.7	4731.9	4668.2	4584.9	4511.4	4506.5	4482.1
30°	4276.3	4202.8	4095.1	3992.2	3864.9	3752.2	3752.2	3713.0
32.5°	3698.3	3531.8	3384.8	3257.4	3090.9	3027.2	2963.5	2929.3
35°	3007.6	2860.7	2684.3	2473.7	2395.3	2238.6	2248.4	2170.0
37.5°	2356.1	2174.9	2008.4	1836.9	1699.8	1626.3	1587.1	1547.9
40°	1748.7	1572.4	1391.2	1278.5	1156.0	1092.3	1067.9	1058.1
42.5°	1195.2	1048.3	930.7	837.6	773.9	705.4	685.8	676.0
45°	778.8	695.6	587.8	514.3	470.2	431.1	431.1	416.4
47.5°	465.3	411.5	357.6	308.6	279.2	254.7	244.9	240.0
50°	259.6	230.2	200.8	181.2	161.6	147.0	142.1	142.1
52.5°	142.1	127.4	117.6	102.9	93.1	93.1	93.1	88.2
55°	73.5	73.5	73.5	73.5	68.6	68.6	68.6	63.7
57.5°	49.0	49.0	53.9	53.9	53.9	49.0	49.0	49.0
60°	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
62.5°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
65°	19.6	24.5	24.5	24.5	24.5	19.6	19.6	19.6
67.5°	14.7	19.6	19.6	19.6	14.7	14.7	14.7	14.7
70°	14.7	14.7	14.7	14.7	14.7	9.8	9.8	9.8
72.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	4.9	4.9	4.9	4.9	4.9	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)