

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: P209405

Luminaire Tested: **LDSQ6B70D010 EU6B60709730 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209405
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 EU6B60709730 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 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5267.7 lumens
Efficiency: N/A
Efficacy: 66.3 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

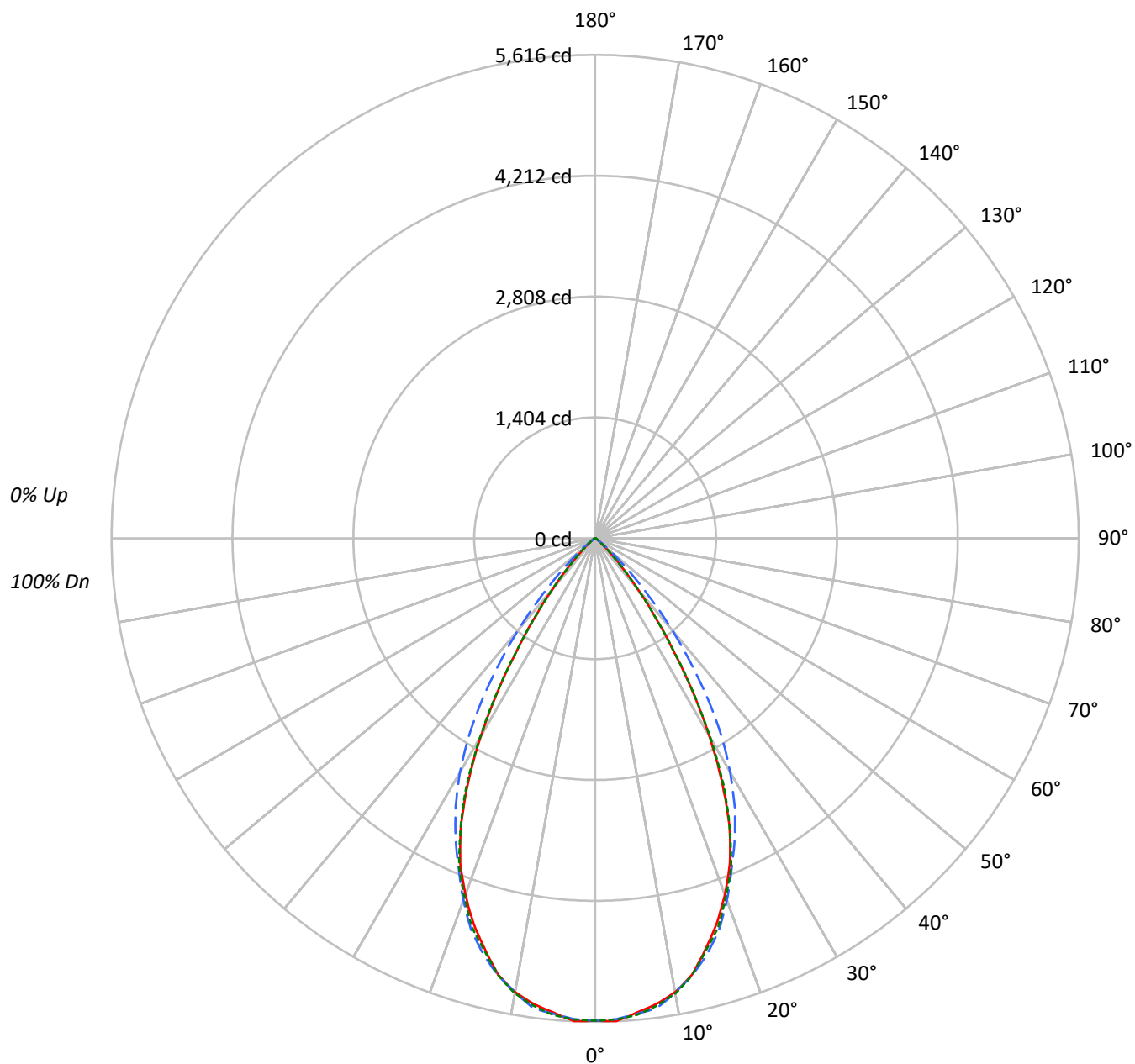
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	524.8	10.0
10°-20°	1396.0	26.5
20°-30°	1713.3	32.5
30°-40°	1182.7	22.5
40°-50°	369.8	7.0
50°-60°	57.8	1.1
60°-70°	16.7	0.3
70°-80°	5.5	0.1
80°-90°	1.2	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°	3634.0	69.0
0°-40°	4816.7	91.4
0°-60°	5244.3	99.6
0°-90°	5267.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5267.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5606	5606	5606	5606	5606	
5°	5531	5552	5546	5547	5560	523
15°	4945	5016	5009	5002	4963	1383
25°	3691	3786	3836	3811	3695	1654
35°	1558	1842	2285	1860	1565	995
45°	293	401	643	397	300	263
55°	50	53	60	53	46	48
65°	14	18	14	18	14	16
75°	4	4	4	4	4	5
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°	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5
2.5°	5616.1	5538.4	5587.9	5577.3	5605.5	5623.2	5605.5	5637.3	5616.1	5591.4	5598.5
5°	5531.4	5542.0	5538.4	5545.5	5552.5	5552.5	5587.9	5591.4	5598.5	5545.5	5559.6
7.5°	5457.2	5457.2	5474.8	5467.8	5492.5	5485.4	5489.0	5517.2	5520.8	5506.6	5496.0
10°	5354.7	5340.6	5323.0	5323.0	5354.7	5358.3	5386.5	5390.1	5411.3	5354.7	5361.8
12.5°	5195.8	5188.7	5160.5	5174.6	5199.3	5185.2	5231.1	5234.7	5227.6	5202.9	5217.0
15°	4945.0	4973.3	4966.2	4962.7	5019.2	5012.1	5008.6	5019.2	5022.7	5008.6	4998.0
17.5°	4694.2	4719.0	4722.5	4729.6	4740.2	4750.7	4764.9	4803.7	4789.6	4779.0	4814.3
20°	4404.6	4394.0	4422.3	4450.5	4461.1	4461.1	4482.3	4510.6	4489.4	4475.2	4478.8
22.5°	4090.2	4107.9	4093.8	4122.0	4136.2	4153.8	4175.0	4199.7	4182.1	4143.2	4189.1
25°	3691.1	3701.7	3747.6	3744.1	3765.3	3807.7	3839.5	3839.5	3839.5	3835.9	3835.9
27.5°	3189.5	3182.5	3239.0	3277.8	3330.8	3397.9	3440.3	3507.4	3518.0	3507.4	3482.7
30°	2652.6	2645.6	2716.2	2765.7	2861.0	2892.8	3009.4	3073.0	3140.1	3136.6	3118.9
32.5°	2094.6	2108.7	2165.2	2235.9	2313.6	2412.5	2522.0	2663.2	2723.3	2737.4	2705.6
35°	1557.7	1578.9	1631.9	1691.9	1787.3	1896.8	2048.6	2182.9	2285.3	2285.3	2260.6
37.5°	1123.2	1130.3	1179.7	1218.6	1317.5	1416.4	1547.1	1730.8	1794.3	1819.1	1794.3
40°	766.5	766.5	794.7	837.1	918.4	1003.1	1123.2	1261.0	1352.8	1391.7	1349.3
42.5°	487.4	494.5	515.7	544.0	604.0	678.2	770.0	872.4	939.6	967.8	929.0
45°	293.2	300.2	317.9	339.1	377.9	423.9	487.4	561.6	618.1	642.9	625.2
47.5°	176.6	183.7	190.7	204.9	233.1	264.9	296.7	339.1	374.4	377.9	370.9
50°	102.4	102.4	109.5	120.1	134.2	151.9	169.5	194.3	204.9	219.0	204.9
52.5°	67.1	67.1	67.1	70.6	77.7	84.8	91.8	106.0	113.0	113.0	109.5
55°	49.5	49.5	49.5	49.5	53.0	53.0	53.0	56.5	60.0	60.0	60.0
57.5°	35.3	35.3	35.3	38.9	38.9	38.9	35.3	35.3	35.3	35.3	35.3
60°	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	24.7	24.7	24.7
62.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
65°	14.1	14.1	14.1	17.7	17.7	17.7	17.7	14.1	14.1	14.1	14.1
67.5°	10.6	10.6	10.6	14.1	14.1	14.1	14.1	14.1	10.6	10.6	10.6
70°	7.1	7.1	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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°	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5	5605.5
2.5°	5619.7	5602.0	5602.0	5602.0	5594.9	5602.0	5612.6	5594.9
5°	5559.6	5566.7	5534.9	5559.6	5570.2	5552.5	5594.9	5559.6
7.5°	5506.6	5496.0	5446.6	5481.9	5503.1	5510.2	5506.6	5478.4
10°	5400.7	5375.9	5354.7	5354.7	5347.7	5344.1	5383.0	5368.9
12.5°	5209.9	5227.6	5195.8	5213.5	5199.3	5202.9	5206.4	5199.3
15°	5047.4	5029.8	4987.4	5015.7	4998.0	4980.3	5015.7	4962.7
17.5°	4793.1	4789.6	4764.9	4747.2	4754.3	4750.7	4768.4	4743.7
20°	4492.9	4500.0	4485.8	4478.8	4468.2	4443.5	4464.6	4436.4
22.5°	4167.9	4175.0	4189.1	4160.9	4164.4	4129.1	4160.9	4129.1
25°	3839.5	3835.9	3818.3	3804.1	3765.3	3726.4	3719.4	3694.6
27.5°	3479.2	3454.4	3412.1	3366.1	3306.1	3253.1	3249.6	3231.9
30°	3083.6	3030.6	2952.9	2878.7	2786.9	2705.6	2705.6	2677.4
32.5°	2666.8	2546.7	2440.7	2348.9	2228.8	2182.9	2137.0	2112.2
35°	2168.7	2062.8	1935.6	1783.7	1727.2	1614.2	1621.3	1564.7
37.5°	1699.0	1568.3	1448.2	1324.6	1225.7	1172.7	1144.4	1116.2
40°	1261.0	1133.8	1003.1	921.9	833.6	787.7	770.0	762.9
42.5°	861.8	755.9	671.1	604.0	558.1	508.6	494.5	487.4
45°	561.6	501.6	423.9	370.9	339.1	310.8	310.8	300.2
47.5°	335.6	296.7	257.8	222.5	201.3	183.7	176.6	173.1
50°	187.2	166.0	144.8	130.7	116.6	106.0	102.4	102.4
52.5°	102.4	91.8	84.8	74.2	67.1	67.1	67.1	63.6
55°	53.0	53.0	53.0	53.0	49.5	49.5	49.5	45.9
57.5°	35.3	35.3	38.9	38.9	38.9	35.3	35.3	35.3
60°	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
62.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
65°	14.1	17.7	17.7	17.7	17.7	14.1	14.1	14.1
67.5°	10.6	14.1	14.1	14.1	10.6	10.6	10.6	10.6
70°	10.6	10.6	10.6	10.6	10.6	7.1	7.1	7.1
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	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)