

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: P209404

Luminaire Tested: **LDSQ6B70D010 EU6B60709727 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209404
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 EU6B60709727 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 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5040.3 lumens
Efficiency: N/A
Efficacy: 63.4 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

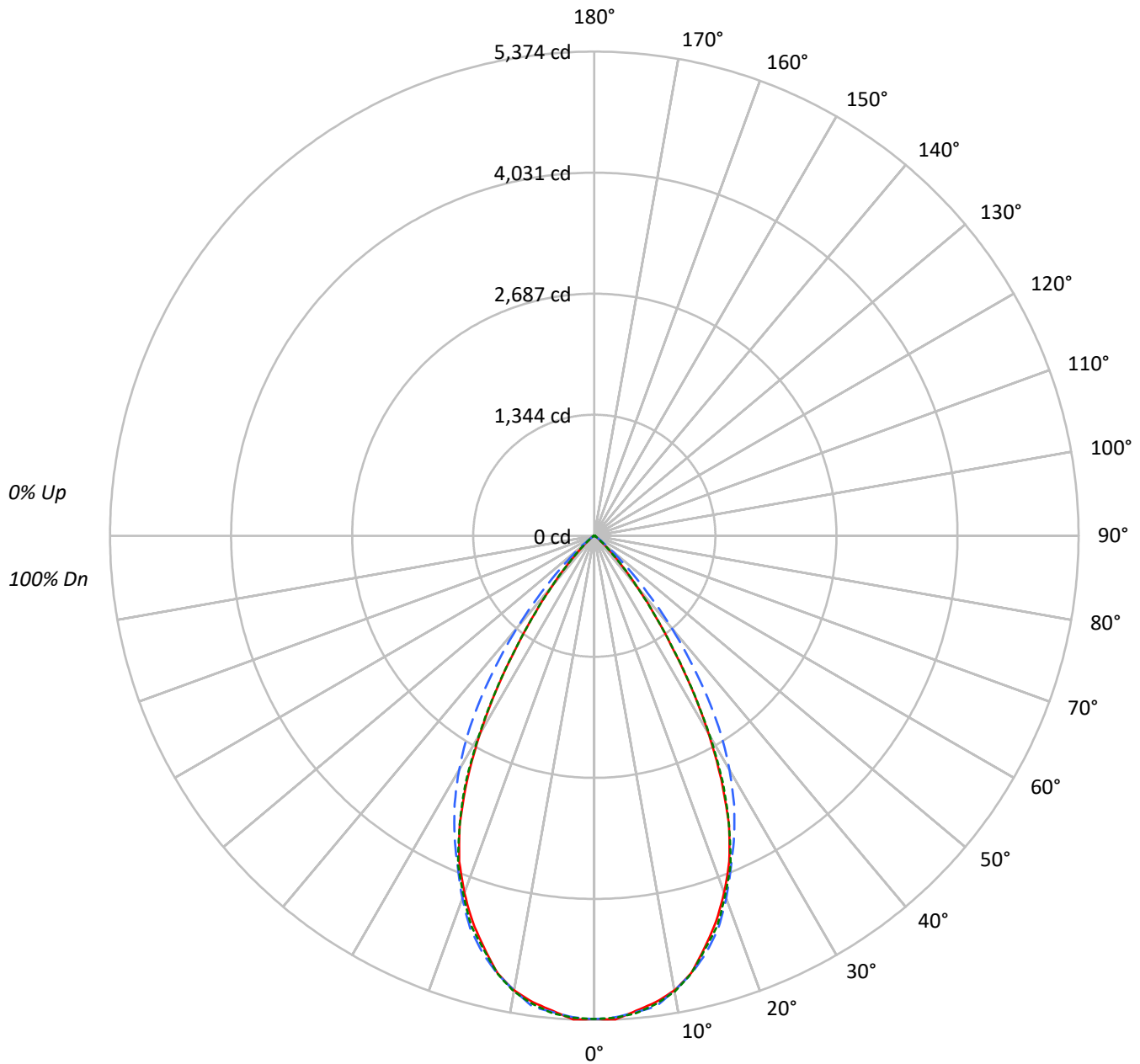
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	502.1	10.0
10°-20°	1335.7	26.5
20°-30°	1639.3	32.5
30°-40°	1131.7	22.5
40°-50°	353.8	7.0
50°-60°	55.3	1.1
60°-70°	16.0	0.3
70°-80°	5.3	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°	3477.1	69.0
0°-40°	4608.8	91.4
0°-60°	5017.9	99.6
0°-90°	5040.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5040.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5364	5364	5364	5364	5364	
5°	5292	5313	5306	5308	5320	500
15°	4732	4799	4792	4786	4748	1323
25°	3532	3623	3670	3647	3535	1582
35°	1490	1762	2187	1779	1497	952
45°	280	384	615	380	287	251
55°	47	51	58	51	44	46
65°	14	17	14	17	14	15
75°	3	3	3	3	3	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°	5363.5	5363.5	5363.5	5363.5	5363.5	5363.5	5363.5	5363.5	5363.5	5363.5	5363.5
2.5°	5373.7	5299.3	5346.6	5336.5	5363.5	5380.4	5363.5	5393.9	5373.7	5350.0	5356.8
5°	5292.5	5302.7	5299.3	5306.1	5312.8	5312.8	5346.6	5350.0	5356.8	5306.1	5319.6
7.5°	5221.6	5221.6	5238.5	5231.7	5255.4	5248.6	5252.0	5279.0	5282.4	5268.9	5258.7
10°	5123.6	5110.0	5093.1	5093.1	5123.6	5126.9	5154.0	5157.4	5177.6	5123.6	5130.3
12.5°	4971.5	4964.7	4937.7	4951.2	4974.9	4961.3	5005.3	5008.7	5001.9	4978.2	4991.8
15°	4731.5	4758.6	4751.8	4748.4	4802.5	4795.7	4792.4	4802.5	4805.9	4792.4	4782.2
17.5°	4491.6	4515.2	4518.6	4525.4	4535.5	4545.6	4559.2	4596.3	4582.8	4572.7	4606.5
20°	4214.4	4204.3	4231.3	4258.4	4268.5	4268.5	4288.8	4315.8	4295.5	4282.0	4285.4
22.5°	3913.6	3930.5	3917.0	3944.1	3957.6	3974.5	3994.8	4018.4	4001.5	3964.3	4008.3
25°	3531.7	3541.9	3585.8	3582.4	3602.7	3643.3	3673.7	3673.7	3673.7	3670.3	3670.3
27.5°	3051.8	3045.1	3099.1	3136.3	3187.0	3251.2	3291.8	3356.0	3366.1	3356.0	3332.3
30°	2538.1	2531.4	2599.0	2646.3	2737.5	2767.9	2879.5	2940.3	3004.5	3001.1	2984.2
32.5°	2004.1	2017.7	2071.7	2139.3	2213.7	2308.3	2413.1	2548.3	2605.7	2619.2	2588.8
35°	1490.4	1510.7	1561.4	1618.9	1710.1	1814.9	1960.2	2088.6	2186.6	2186.6	2163.0
37.5°	1074.7	1081.5	1128.8	1166.0	1260.6	1355.2	1480.3	1656.0	1716.9	1740.5	1716.9
40°	733.4	733.4	760.4	801.0	878.7	959.8	1074.7	1206.5	1294.4	1331.6	1291.0
42.5°	466.4	473.2	493.4	520.5	577.9	648.9	736.8	834.8	899.0	926.0	888.9
45°	280.5	287.3	304.2	324.4	361.6	405.6	466.4	537.4	591.4	615.1	598.2
47.5°	169.0	175.7	182.5	196.0	223.1	253.5	283.9	324.4	358.2	361.6	354.9
50°	98.0	98.0	104.8	114.9	128.4	145.3	162.2	185.9	196.0	209.5	196.0
52.5°	64.2	64.2	64.2	67.6	74.4	81.1	87.9	101.4	108.1	108.1	104.8
55°	47.3	47.3	47.3	47.3	50.7	50.7	50.7	54.1	57.5	57.5	57.5
57.5°	33.8	33.8	33.8	37.2	37.2	37.2	33.8	33.8	33.8	33.8	33.8
60°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	23.7	23.7	23.7
62.5°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
65°	13.5	13.5	13.5	16.9	16.9	16.9	16.9	13.5	13.5	13.5	13.5
67.5°	10.1	10.1	10.1	13.5	13.5	13.5	13.5	13.5	10.1	10.1	10.1
70°	6.8	6.8	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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°	5363.5	5363.5	5363.5	5363.5	5363.5	5363.5	5363.5	5363.5
2.5°	5377.0	5360.1	5360.1	5360.1	5353.4	5360.1	5370.3	5353.4
5°	5319.6	5326.3	5295.9	5319.6	5329.7	5312.8	5353.4	5319.6
7.5°	5268.9	5258.7	5211.4	5245.2	5265.5	5272.3	5268.9	5241.9
10°	5167.5	5143.8	5123.6	5123.6	5116.8	5113.4	5150.6	5137.1
12.5°	4985.0	5001.9	4971.5	4988.4	4974.9	4978.2	4981.6	4974.9
15°	4829.5	4812.6	4772.1	4799.1	4782.2	4765.3	4799.1	4748.4
17.5°	4586.2	4582.8	4559.2	4542.3	4549.0	4545.6	4562.5	4538.9
20°	4298.9	4305.7	4292.2	4285.4	4275.3	4251.6	4271.9	4244.9
22.5°	3988.0	3994.8	4008.3	3981.2	3984.6	3950.8	3981.2	3950.8
25°	3673.7	3670.3	3653.4	3639.9	3602.7	3565.5	3558.8	3535.1
27.5°	3329.0	3305.3	3264.8	3220.8	3163.4	3112.7	3109.3	3092.4
30°	2950.4	2899.7	2825.4	2754.4	2666.6	2588.8	2588.8	2561.8
32.5°	2551.6	2436.7	2335.3	2247.5	2132.6	2088.6	2044.7	2021.0
35°	2075.1	1973.7	1852.1	1706.7	1652.7	1544.5	1551.3	1497.2
37.5°	1625.6	1500.6	1385.7	1267.4	1172.7	1122.0	1095.0	1068.0
40°	1206.5	1084.9	959.8	882.1	797.6	753.7	736.8	730.0
42.5°	824.6	723.2	642.1	577.9	534.0	486.7	473.2	466.4
45°	537.4	479.9	405.6	354.9	324.4	297.4	297.4	287.3
47.5°	321.1	283.9	246.7	212.9	192.6	175.7	169.0	165.6
50°	179.1	158.8	138.6	125.0	111.5	101.4	98.0	98.0
52.5°	98.0	87.9	81.1	71.0	64.2	64.2	64.2	60.8
55°	50.7	50.7	50.7	50.7	47.3	47.3	47.3	43.9
57.5°	33.8	33.8	37.2	37.2	37.2	33.8	33.8	33.8
60°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
62.5°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
65°	13.5	16.9	16.9	16.9	16.9	13.5	13.5	13.5
67.5°	10.1	13.5	13.5	13.5	10.1	10.1	10.1	10.1
70°	10.1	10.1	10.1	10.1	10.1	6.8	6.8	6.8
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	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)