

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: P209400

Luminaire Tested: **LDSQ6B70D010 EU6B60709030 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209400
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 EU6B60709030 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: 6026.3 lumens
Efficiency: N/A
Efficacy: 75.9 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

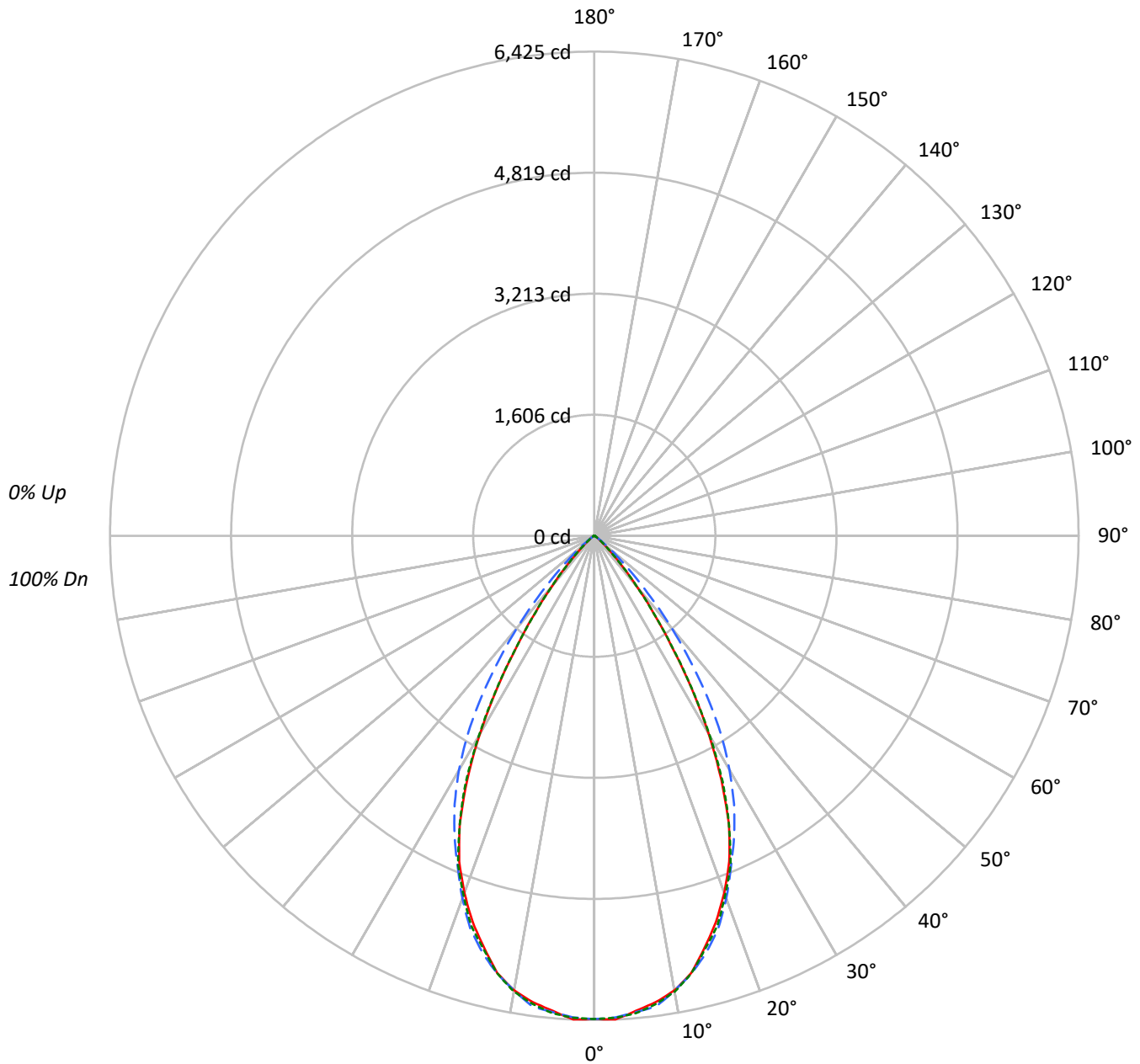
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	600.4	10.0
10°-20°	1597.0	26.5
20°-30°	1960.0	32.5
30°-40°	1353.1	22.5
40°-50°	423.0	7.0
50°-60°	66.1	1.1
60°-70°	19.1	0.3
70°-80°	6.2	0.1
80°-90°	1.4	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°	4157.4	69.0
0°-40°	5510.5	91.4
0°-60°	5999.6	99.6
0°-90°	6026.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6026.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6413	6413	6413	6413	6413	
5°	6328	6352	6344	6346	6360	598
15°	5657	5738	5730	5722	5677	1582
25°	4223	4332	4388	4360	4227	1892
35°	1782	2107	2614	2128	1790	1138
45°	335	459	735	455	344	300
55°	57	61	69	61	52	55
65°	16	20	16	20	16	18
75°	4	4	4	4	4	6
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°	6412.9	6412.9	6412.9	6412.9	6412.9	6412.9	6412.9	6412.9	6412.9	6412.9	6412.9
2.5°	6425.0	6336.1	6392.7	6380.6	6412.9	6433.1	6412.9	6449.3	6425.0	6396.7	6404.8
5°	6328.0	6340.1	6336.1	6344.2	6352.3	6352.3	6392.7	6396.7	6404.8	6344.2	6360.4
7.5°	6243.2	6243.2	6263.4	6255.3	6283.6	6275.5	6279.5	6311.9	6315.9	6299.7	6287.6
10°	6126.0	6109.8	6089.6	6089.6	6126.0	6130.0	6162.3	6166.4	6190.6	6126.0	6134.1
12.5°	5944.1	5936.1	5903.7	5919.9	5948.2	5932.0	5984.5	5988.6	5980.5	5952.2	5968.4
15°	5657.2	5689.6	5681.5	5677.4	5742.1	5734.0	5730.0	5742.1	5746.1	5730.0	5717.9
17.5°	5370.3	5398.6	5402.7	5410.7	5422.9	5435.0	5451.2	5495.6	5479.4	5467.3	5507.7
20°	5039.0	5026.9	5059.2	5091.5	5103.6	5103.6	5127.9	5160.2	5136.0	5119.8	5123.8
22.5°	4679.3	4699.5	4683.4	4715.7	4731.9	4752.1	4776.3	4804.6	4784.4	4740.0	4792.5
25°	4222.7	4234.8	4287.4	4283.3	4307.6	4356.1	4392.4	4392.4	4392.4	4388.4	4388.4
27.5°	3648.9	3640.8	3705.5	3749.9	3810.6	3887.3	3935.8	4012.6	4024.7	4012.6	3984.3
30°	3034.7	3026.6	3107.4	3164.0	3273.1	3309.5	3442.8	3515.6	3592.3	3588.3	3568.1
32.5°	2396.2	2412.4	2477.1	2557.9	2646.8	2759.9	2885.2	3046.8	3115.5	3131.7	3095.3
35°	1782.0	1806.3	1866.9	1935.6	2044.7	2170.0	2343.7	2497.3	2614.5	2614.5	2586.2
37.5°	1285.0	1293.1	1349.7	1394.1	1507.2	1620.4	1769.9	1980.0	2052.8	2081.1	2052.8
40°	876.9	876.9	909.2	957.7	1050.6	1147.6	1285.0	1442.6	1547.7	1592.1	1543.6
42.5°	557.6	565.7	590.0	622.3	691.0	775.8	880.9	998.1	1074.9	1107.2	1062.8
45°	335.4	343.5	363.7	387.9	432.4	484.9	557.6	642.5	707.2	735.4	715.2
47.5°	202.0	210.1	218.2	234.4	266.7	303.1	339.4	387.9	428.3	432.4	424.3
50°	117.2	117.2	125.3	137.4	153.6	173.8	194.0	222.2	234.4	250.5	234.4
52.5°	76.8	76.8	76.8	80.8	88.9	97.0	105.1	121.2	129.3	129.3	125.3
55°	56.6	56.6	56.6	56.6	60.6	60.6	60.6	64.7	68.7	68.7	68.7
57.5°	40.4	40.4	40.4	44.4	44.4	44.4	40.4	40.4	40.4	40.4	40.4
60°	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	28.3	28.3	28.3
62.5°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
65°	16.2	16.2	16.2	20.2	20.2	20.2	20.2	16.2	16.2	16.2	16.2
67.5°	12.1	12.1	12.1	16.2	16.2	16.2	16.2	16.2	12.1	12.1	12.1
70°	8.1	8.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
72.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	0.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	6412.9	6412.9	6412.9	6412.9	6412.9	6412.9	6412.9	6412.9
2.5°	6429.0	6408.8	6408.8	6408.8	6400.8	6408.8	6421.0	6400.8
5°	6360.4	6368.4	6332.1	6360.4	6372.5	6352.3	6400.8	6360.4
7.5°	6299.7	6287.6	6231.0	6271.5	6295.7	6303.8	6299.7	6267.4
10°	6178.5	6150.2	6126.0	6126.0	6117.9	6113.9	6158.3	6142.1
12.5°	5960.3	5980.5	5944.1	5964.3	5948.2	5952.2	5956.3	5948.2
15°	5774.4	5754.2	5705.7	5738.1	5717.9	5697.6	5738.1	5677.4
17.5°	5483.5	5479.4	5451.2	5430.9	5439.0	5435.0	5455.2	5426.9
20°	5140.0	5148.1	5131.9	5123.8	5111.7	5083.4	5107.7	5075.4
22.5°	4768.2	4776.3	4792.5	4760.2	4764.2	4723.8	4760.2	4723.8
25°	4392.4	4388.4	4368.2	4352.0	4307.6	4263.1	4255.1	4226.8
27.5°	3980.3	3952.0	3903.5	3851.0	3782.3	3721.7	3717.6	3697.4
30°	3527.7	3467.1	3378.2	3293.3	3188.3	3095.3	3095.3	3063.0
32.5°	3050.9	2913.5	2792.3	2687.2	2549.8	2497.3	2444.7	2416.4
35°	2481.1	2359.9	2214.4	2040.6	1976.0	1846.7	1854.8	1790.1
37.5°	1943.7	1794.2	1656.8	1515.3	1402.2	1341.6	1309.2	1276.9
40°	1442.6	1297.1	1147.6	1054.7	953.6	901.1	880.9	872.8
42.5°	986.0	864.7	767.8	691.0	638.5	581.9	565.7	557.6
45°	642.5	573.8	484.9	424.3	387.9	355.6	355.6	343.5
47.5°	383.9	339.4	295.0	254.6	230.3	210.1	202.0	198.0
50°	214.2	189.9	165.7	149.5	133.3	121.2	117.2	117.2
52.5°	117.2	105.1	97.0	84.9	76.8	76.8	76.8	72.7
55°	60.6	60.6	60.6	60.6	56.6	56.6	56.6	52.5
57.5°	40.4	40.4	44.4	44.4	44.4	40.4	40.4	40.4
60°	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
62.5°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
65°	16.2	20.2	20.2	20.2	20.2	16.2	16.2	16.2
67.5°	12.1	16.2	16.2	16.2	12.1	12.1	12.1	12.1
70°	12.1	12.1	12.1	12.1	12.1	8.1	8.1	8.1
72.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
82.5°	4.0	4.0	4.0	4.0	4.0	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)