

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: P209393

Luminaire Tested: **LDSQ6B70D010 EU6B60708027 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209393
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 EU6B60708027 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: 6750.1 lumens
Efficiency: N/A
Efficacy: 85.0 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

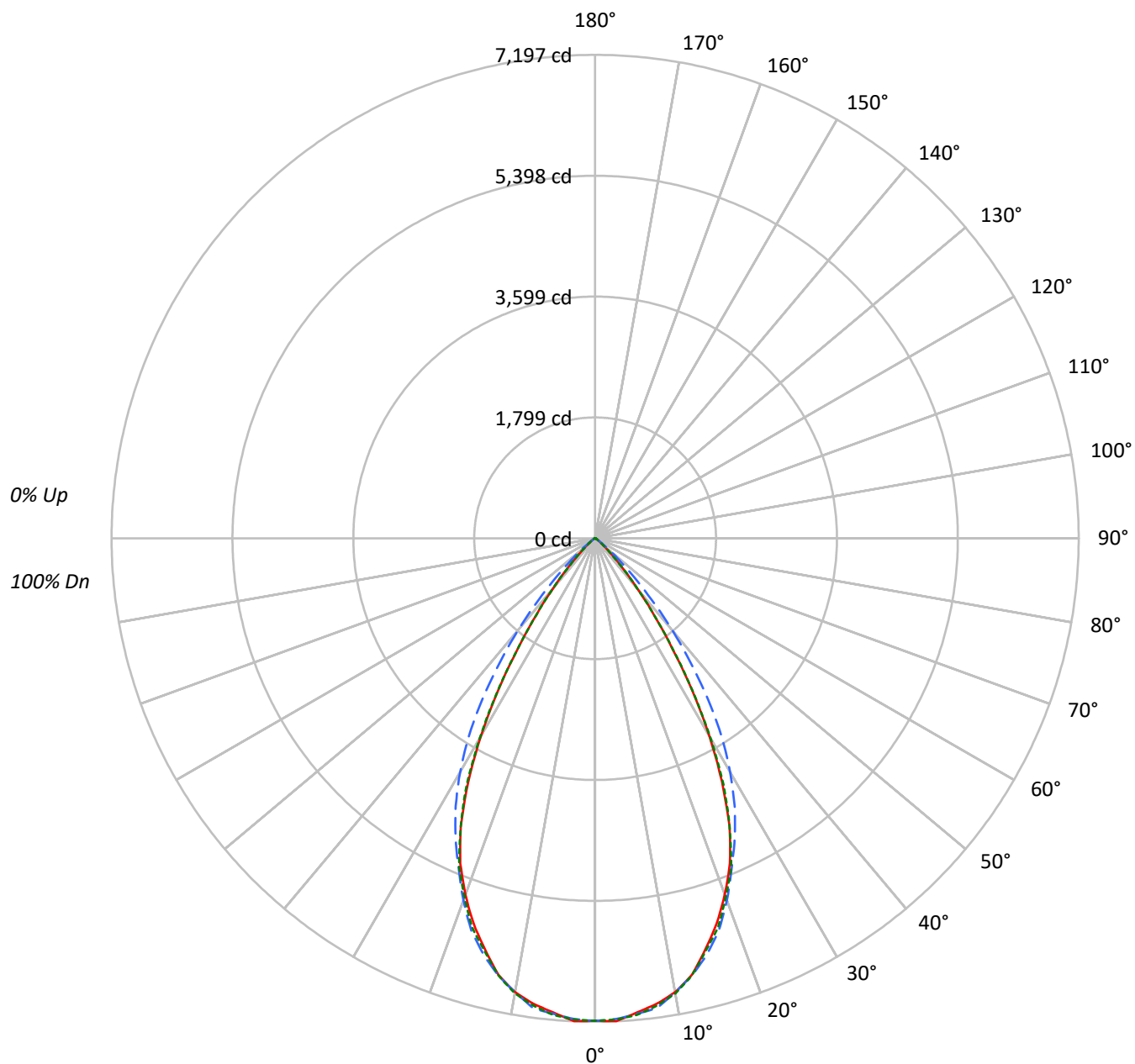
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	672.5	10.0
10°-20°	1788.8	26.5
20°-30°	2195.4	32.5
30°-40°	1515.6	22.5
40°-50°	473.8	7.0
50°-60°	74.0	1.1
60°-70°	21.4	0.3
70°-80°	7.0	0.1
80°-90°	1.6	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°	4656.7	69.0
0°-40°	6172.3	91.4
0°-60°	6720.1	99.6
0°-90°	6750.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6750.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7183	7183	7183	7183	7183	
5°	7088	7115	7106	7108	7124	670
15°	6337	6427	6418	6409	6359	1772
25°	4730	4852	4915	4884	4734	2119
35°	1996	2360	2928	2383	2005	1275
45°	376	514	824	509	385	336
55°	63	68	77	68	59	62
65°	18	23	18	23	18	20
75°	4	4	4	4	4	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°	7183.0	7183.0	7183.0	7183.0	7183.0	7183.0	7183.0	7183.0	7183.0	7183.0	7183.0
2.5°	7196.6	7097.0	7160.4	7146.8	7183.0	7205.7	7183.0	7223.8	7196.6	7164.9	7174.0
5°	7088.0	7101.6	7097.0	7106.1	7115.1	7115.1	7160.4	7164.9	7174.0	7106.1	7124.2
7.5°	6992.9	6992.9	7015.6	7006.5	7038.2	7029.2	7033.7	7069.9	7074.4	7056.3	7042.7
10°	6861.7	6843.6	6820.9	6820.9	6861.7	6866.2	6902.4	6906.9	6934.1	6861.7	6870.7
12.5°	6658.0	6649.0	6612.7	6630.8	6662.5	6644.4	6703.3	6707.8	6698.7	6667.1	6685.2
15°	6336.6	6372.9	6363.8	6359.3	6431.7	6422.6	6418.1	6431.7	6436.2	6418.1	6404.5
17.5°	6015.3	6047.0	6051.5	6060.5	6074.1	6087.7	6105.8	6155.6	6137.5	6123.9	6169.2
20°	5644.1	5630.6	5666.8	5703.0	5716.6	5716.6	5743.7	5779.9	5752.8	5734.7	5739.2
22.5°	5241.3	5263.9	5245.8	5282.0	5300.2	5322.8	5349.9	5381.6	5359.0	5309.2	5368.0
25°	4729.9	4743.4	4802.3	4797.7	4824.9	4879.2	4920.0	4920.0	4920.0	4915.4	4915.4
27.5°	4087.1	4078.1	4150.5	4200.3	4268.2	4354.2	4408.5	4494.5	4508.1	4494.5	4462.8
30°	3399.2	3390.1	3480.6	3544.0	3666.2	3706.9	3856.3	3937.8	4023.8	4019.2	3996.6
32.5°	2684.0	2702.1	2774.5	2865.1	2964.6	3091.4	3231.7	3412.7	3489.7	3507.8	3467.1
35°	1996.0	2023.2	2091.1	2168.0	2290.2	2430.6	2625.2	2797.2	2928.4	2928.4	2896.8
37.5°	1439.3	1448.4	1511.7	1561.5	1688.3	1815.0	1982.5	2217.8	2299.3	2331.0	2299.3
40°	982.2	982.2	1018.4	1072.7	1176.8	1285.4	1439.3	1615.8	1733.5	1783.3	1729.0
42.5°	624.6	633.7	660.8	697.0	774.0	869.0	986.7	1118.0	1204.0	1240.2	1190.4
45°	375.7	384.7	407.4	434.5	484.3	543.1	624.6	719.7	792.1	823.8	801.1
47.5°	226.3	235.4	244.4	262.5	298.7	339.5	380.2	434.5	479.8	484.3	475.2
50°	131.3	131.3	140.3	153.9	172.0	194.6	217.3	248.9	262.5	280.6	262.5
52.5°	86.0	86.0	86.0	90.5	99.6	108.6	117.7	135.8	144.8	144.8	140.3
55°	63.4	63.4	63.4	63.4	67.9	67.9	67.9	72.4	76.9	76.9	76.9
57.5°	45.3	45.3	45.3	49.8	49.8	49.8	45.3	45.3	45.3	45.3	45.3
60°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	31.7	31.7	31.7
62.5°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
65°	18.1	18.1	18.1	22.6	22.6	22.6	22.6	18.1	18.1	18.1	18.1
67.5°	13.6	13.6	13.6	18.1	18.1	18.1	18.1	18.1	13.6	13.6	13.6
70°	9.1	9.1	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
72.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	0.0	0.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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°	7183.0	7183.0	7183.0	7183.0	7183.0	7183.0	7183.0	7183.0
2.5°	7201.1	7178.5	7178.5	7178.5	7169.5	7178.5	7192.1	7169.5
5°	7124.2	7133.3	7092.5	7124.2	7137.8	7115.1	7169.5	7124.2
7.5°	7056.3	7042.7	6979.4	7024.6	7051.8	7060.8	7056.3	7020.1
10°	6920.5	6888.8	6861.7	6861.7	6852.6	6848.1	6897.9	6879.8
12.5°	6676.1	6698.7	6658.0	6680.6	6662.5	6667.1	6671.6	6662.5
15°	6467.9	6445.3	6391.0	6427.2	6404.5	6381.9	6427.2	6359.3
17.5°	6142.0	6137.5	6105.8	6083.2	6092.2	6087.7	6110.3	6078.7
20°	5757.3	5766.3	5748.2	5739.2	5725.6	5693.9	5721.1	5684.9
22.5°	5340.9	5349.9	5368.0	5331.8	5336.4	5291.1	5331.8	5291.1
25°	4920.0	4915.4	4892.8	4874.7	4824.9	4775.1	4766.1	4734.4
27.5°	4458.3	4426.6	4372.3	4313.4	4236.5	4168.6	4164.1	4141.5
30°	3951.4	3883.5	3783.9	3688.8	3571.2	3467.1	3467.1	3430.8
32.5°	3417.3	3263.4	3127.6	3009.9	2856.0	2797.2	2738.3	2706.7
35°	2779.1	2643.3	2480.3	2285.7	2213.3	2068.5	2077.5	2005.1
37.5°	2177.1	2009.6	1855.7	1697.3	1570.6	1502.7	1466.5	1430.3
40°	1615.8	1452.9	1285.4	1181.3	1068.2	1009.3	986.7	977.7
42.5°	1104.4	968.6	860.0	774.0	715.1	651.8	633.7	624.6
45°	719.7	642.7	543.1	475.2	434.5	398.3	398.3	384.7
47.5°	430.0	380.2	330.4	285.1	258.0	235.4	226.3	221.8
50°	239.9	212.7	185.6	167.5	149.4	135.8	131.3	131.3
52.5°	131.3	117.7	108.6	95.0	86.0	86.0	86.0	81.5
55°	67.9	67.9	67.9	67.9	63.4	63.4	63.4	58.8
57.5°	45.3	45.3	49.8	49.8	49.8	45.3	45.3	45.3
60°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
62.5°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
65°	18.1	22.6	22.6	22.6	22.6	18.1	18.1	18.1
67.5°	13.6	18.1	18.1	18.1	13.6	13.6	13.6	13.6
70°	13.6	13.6	13.6	13.6	13.6	9.1	9.1	9.1
72.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	4.5	4.5	4.5	4.5	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)