

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: P209403

Luminaire Tested: **LDSQ6B70D010 EU6B60709050 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209403
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 EU6B60709050 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: 6149.7 lumens
Efficiency: N/A
Efficacy: 77.4 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

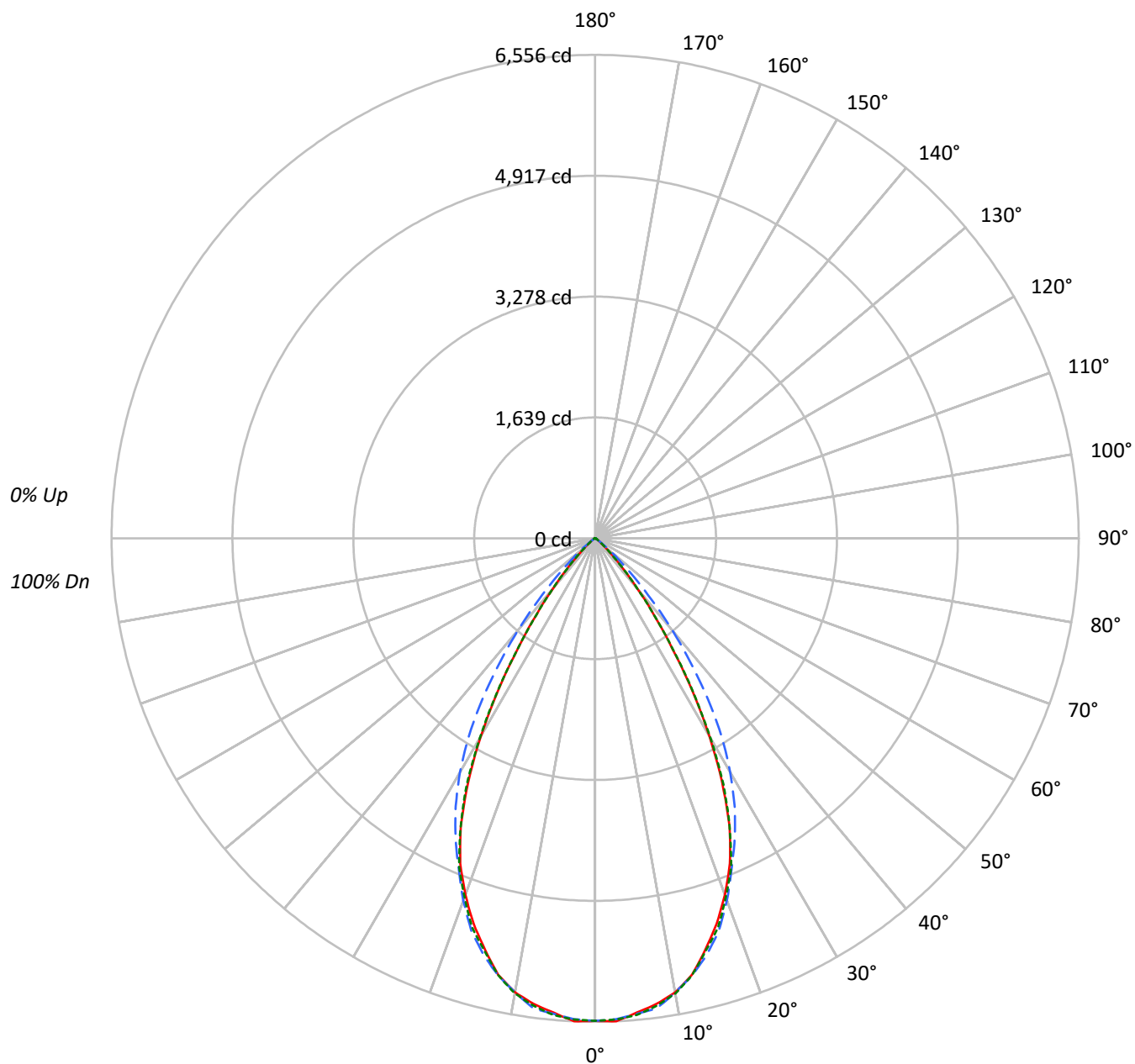
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	612.7	10.0
10°-20°	1629.7	26.5
20°-30°	2000.1	32.5
30°-40°	1380.8	22.5
40°-50°	431.7	7.0
50°-60°	67.4	1.1
60°-70°	19.5	0.3
70°-80°	6.4	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°	4242.5	69.0
0°-40°	5623.3	91.4
0°-60°	6122.4	99.6
0°-90°	6149.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6149.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6544	6544	6544	6544	6544	
5°	6458	6482	6474	6476	6491	610
15°	5773	5856	5847	5839	5794	1615
25°	4309	4420	4478	4449	4313	1931
35°	1818	2150	2668	2171	1827	1162
45°	342	468	750	464	350	307
55°	58	62	70	62	54	56
65°	16	21	16	21	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°	6544.2	6544.2	6544.2	6544.2	6544.2	6544.2	6544.2	6544.2	6544.2	6544.2	6544.2
2.5°	6556.5	6465.8	6523.5	6511.2	6544.2	6564.8	6544.2	6581.3	6556.5	6527.7	6535.9
5°	6457.6	6469.9	6465.8	6474.1	6482.3	6482.3	6523.5	6527.7	6535.9	6474.1	6490.6
7.5°	6371.0	6371.0	6391.6	6383.3	6412.2	6404.0	6408.1	6441.1	6445.2	6428.7	6416.3
10°	6251.4	6234.9	6214.3	6214.3	6251.4	6255.5	6288.5	6292.6	6317.4	6251.4	6259.6
12.5°	6065.8	6057.6	6024.6	6041.1	6069.9	6053.5	6107.1	6111.2	6102.9	6074.1	6090.6
15°	5773.0	5806.0	5797.8	5793.7	5859.6	5851.4	5847.3	5859.6	5863.8	5847.3	5834.9
17.5°	5480.3	5509.1	5513.3	5521.5	5533.9	5546.2	5562.7	5608.1	5591.6	5579.2	5620.5
20°	5142.1	5129.8	5162.8	5195.7	5208.1	5208.1	5232.9	5265.8	5241.1	5224.6	5228.7
22.5°	4775.1	4795.8	4779.3	4812.2	4828.7	4849.4	4874.1	4903.0	4882.3	4837.0	4890.6
25°	4309.2	4321.5	4375.1	4371.0	4395.8	4445.2	4482.4	4482.4	4482.4	4478.2	4478.2
27.5°	3723.6	3715.4	3781.3	3826.7	3888.6	3966.9	4016.4	4094.7	4107.1	4094.7	4065.9
30°	3096.8	3088.6	3171.1	3228.8	3340.1	3377.2	3513.3	3587.5	3665.9	3661.8	3641.1
32.5°	2445.3	2461.8	2527.8	2610.2	2701.0	2816.4	2944.3	3109.2	3179.3	3195.8	3158.7
35°	1818.5	1843.3	1905.1	1975.2	2086.5	2214.4	2391.7	2548.4	2668.0	2668.0	2639.1
37.5°	1311.3	1319.6	1377.3	1422.6	1538.1	1653.6	1806.1	2020.6	2094.8	2123.7	2094.8
40°	894.8	894.8	927.8	977.3	1072.1	1171.1	1311.3	1472.1	1579.3	1624.7	1575.2
42.5°	569.1	577.3	602.0	635.0	705.1	791.7	898.9	1018.5	1096.9	1129.9	1084.5
45°	342.3	350.5	371.1	395.9	441.2	494.8	569.1	655.7	721.6	750.5	729.9
47.5°	206.2	214.4	222.7	239.2	272.2	309.3	346.4	395.9	437.1	441.2	433.0
50°	119.6	119.6	127.8	140.2	156.7	177.3	197.9	226.8	239.2	255.7	239.2
52.5°	78.3	78.3	78.3	82.5	90.7	99.0	107.2	123.7	132.0	132.0	127.8
55°	57.7	57.7	57.7	57.7	61.9	61.9	61.9	66.0	70.1	70.1	70.1
57.5°	41.2	41.2	41.2	45.4	45.4	45.4	41.2	41.2	41.2	41.2	41.2
60°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	28.9	28.9	28.9
62.5°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
65°	16.5	16.5	16.5	20.6	20.6	20.6	20.6	16.5	16.5	16.5	16.5
67.5°	12.4	12.4	12.4	16.5	16.5	16.5	16.5	16.5	12.4	12.4	12.4
70°	8.2	8.2	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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°	6544.2	6544.2	6544.2	6544.2	6544.2	6544.2	6544.2	6544.2
2.5°	6560.7	6540.0	6540.0	6540.0	6531.8	6540.0	6552.4	6531.8
5°	6490.6	6498.8	6461.7	6490.6	6502.9	6482.3	6531.8	6490.6
7.5°	6428.7	6416.3	6358.6	6399.8	6424.6	6432.8	6428.7	6395.7
10°	6305.0	6276.1	6251.4	6251.4	6243.1	6239.0	6284.4	6267.9
12.5°	6082.3	6102.9	6065.8	6086.4	6069.9	6074.1	6078.2	6069.9
15°	5892.6	5872.0	5822.5	5855.5	5834.9	5814.3	5855.5	5793.7
17.5°	5595.7	5591.6	5562.7	5542.1	5550.4	5546.2	5566.9	5538.0
20°	5245.2	5253.5	5237.0	5228.7	5216.4	5187.5	5212.2	5179.2
22.5°	4865.9	4874.1	4890.6	4857.6	4861.7	4820.5	4857.6	4820.5
25°	4482.4	4478.2	4457.6	4441.1	4395.8	4350.4	4342.2	4313.3
27.5°	4061.8	4032.9	3983.4	3929.8	3859.7	3797.8	3793.7	3773.1
30°	3599.9	3538.1	3447.3	3360.7	3253.5	3158.7	3158.7	3125.7
32.5°	3113.3	2973.1	2849.4	2742.2	2602.0	2548.4	2494.8	2465.9
35°	2531.9	2408.2	2259.7	2082.4	2016.4	1884.5	1892.7	1826.8
37.5°	1983.5	1830.9	1690.7	1546.4	1430.9	1369.0	1336.0	1303.1
40°	1472.1	1323.7	1171.1	1076.3	973.2	919.6	898.9	890.7
42.5°	1006.2	882.5	783.5	705.1	651.5	593.8	577.3	569.1
45°	655.7	585.6	494.8	433.0	395.9	362.9	362.9	350.5
47.5°	391.7	346.4	301.0	259.8	235.0	214.4	206.2	202.1
50°	218.6	193.8	169.1	152.6	136.1	123.7	119.6	119.6
52.5°	119.6	107.2	99.0	86.6	78.3	78.3	78.3	74.2
55°	61.9	61.9	61.9	61.9	57.7	57.7	57.7	53.6
57.5°	41.2	41.2	45.4	45.4	45.4	41.2	41.2	41.2
60°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
62.5°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
65°	16.5	20.6	20.6	20.6	20.6	16.5	16.5	16.5
67.5°	12.4	16.5	16.5	16.5	12.4	12.4	12.4	12.4
70°	12.4	12.4	12.4	12.4	12.4	8.2	8.2	8.2
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	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)