

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: P209394

Luminaire Tested: **LDSQ6B70D010 EU6B60708030 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209394
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 EU6B60708030 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: 7056.5 lumens
Efficiency: N/A
Efficacy: 88.8 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

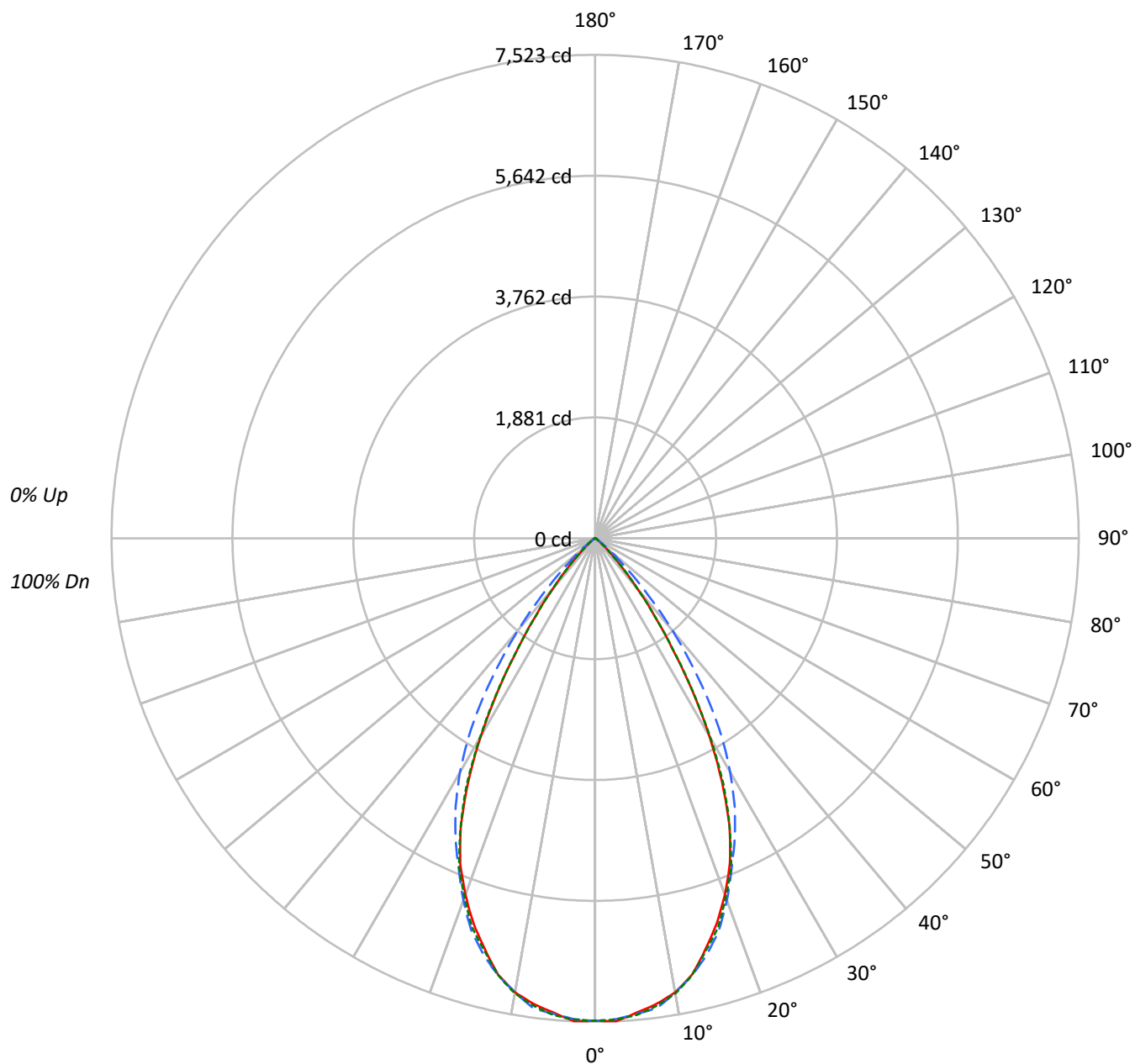
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	703.0	10.0
10°-20°	1870.0	26.5
20°-30°	2295.1	32.5
30°-40°	1584.3	22.5
40°-50°	495.3	7.0
50°-60°	77.4	1.1
60°-70°	22.4	0.3
70°-80°	7.3	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°	4868.1	69.0
0°-40°	6452.4	91.4
0°-60°	7025.1	99.6
0°-90°	7056.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7056.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7509	7509	7509	7509	7509	
5°	7410	7438	7429	7431	7448	700
15°	6624	6719	6709	6700	6648	1853
25°	4944	5072	5138	5105	4949	2215
35°	2087	2468	3061	2491	2096	1333
45°	393	537	861	532	402	352
55°	66	71	80	71	62	64
65°	19	24	19	24	19	21
75°	5	5	5	5	5	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°	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0
2.5°	7523.2	7419.1	7485.4	7471.2	7509.0	7532.7	7509.0	7551.6	7523.2	7490.1	7499.6
5°	7409.7	7423.9	7419.1	7428.6	7438.1	7438.1	7485.4	7490.1	7499.6	7428.6	7447.5
7.5°	7310.3	7310.3	7334.0	7324.5	7357.6	7348.2	7352.9	7390.8	7395.5	7376.6	7362.4
10°	7173.1	7154.2	7130.5	7130.5	7173.1	7177.8	7215.7	7220.4	7248.8	7173.1	7182.6
12.5°	6960.2	6950.7	6912.9	6931.8	6964.9	6946.0	7007.5	7012.2	7002.8	6969.6	6988.6
15°	6624.2	6662.1	6652.6	6647.9	6723.6	6714.1	6709.4	6723.6	6728.3	6709.4	6695.2
17.5°	6288.3	6321.4	6326.1	6335.6	6349.8	6364.0	6382.9	6435.0	6416.0	6401.9	6449.2
20°	5900.3	5886.1	5924.0	5961.8	5976.0	5976.0	6004.4	6042.3	6013.9	5994.9	5999.7
22.5°	5479.2	5502.8	5483.9	5521.8	5540.7	5564.4	5592.7	5625.9	5602.2	5550.2	5611.7
25°	4944.5	4958.7	5020.2	5015.5	5043.9	5100.7	5143.2	5143.2	5143.2	5138.5	5138.5
27.5°	4272.6	4263.2	4338.9	4390.9	4461.9	4551.8	4608.6	4698.5	4712.7	4698.5	4665.4
30°	3553.4	3544.0	3638.6	3704.8	3832.6	3875.2	4031.3	4116.5	4206.4	4201.7	4178.0
32.5°	2805.8	2824.8	2900.5	2995.1	3099.2	3231.7	3378.4	3567.6	3648.1	3667.0	3624.4
35°	2086.6	2115.0	2186.0	2266.4	2394.2	2540.9	2744.3	2924.1	3061.3	3061.3	3028.2
37.5°	1504.6	1514.1	1580.4	1632.4	1764.9	1897.4	2072.4	2318.5	2403.7	2436.8	2403.7
40°	1026.8	1026.8	1064.6	1121.4	1230.2	1343.8	1504.6	1689.2	1812.2	1864.2	1807.5
42.5°	653.0	662.4	690.8	728.7	809.1	908.5	1031.5	1168.7	1258.6	1296.5	1244.4
45°	392.7	402.2	425.8	454.2	506.3	567.8	653.0	752.3	828.0	861.2	837.5
47.5°	236.6	246.0	255.5	274.4	312.3	354.9	397.5	454.2	501.5	506.3	496.8
50°	137.2	137.2	146.7	160.9	179.8	203.5	227.1	260.2	274.4	293.4	274.4
52.5°	89.9	89.9	89.9	94.6	104.1	113.6	123.0	141.9	151.4	151.4	146.7
55°	66.2	66.2	66.2	66.2	71.0	71.0	71.0	75.7	80.4	80.4	80.4
57.5°	47.3	47.3	47.3	52.0	52.0	52.0	47.3	47.3	47.3	47.3	47.3
60°	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	33.1	33.1	33.1
62.5°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
65°	18.9	18.9	18.9	23.7	23.7	23.7	23.7	18.9	18.9	18.9	18.9
67.5°	14.2	14.2	14.2	18.9	18.9	18.9	18.9	18.9	14.2	14.2	14.2
70°	9.5	9.5	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
75°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	0.0	0.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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°	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0
2.5°	7528.0	7504.3	7504.3	7504.3	7494.9	7504.3	7518.5	7494.9
5°	7447.5	7457.0	7414.4	7447.5	7461.7	7438.1	7494.9	7447.5
7.5°	7376.6	7362.4	7296.1	7343.4	7371.8	7381.3	7376.6	7338.7
10°	7234.6	7201.5	7173.1	7173.1	7163.6	7158.9	7211.0	7192.0
12.5°	6979.1	7002.8	6960.2	6983.8	6964.9	6969.6	6974.4	6964.9
15°	6761.5	6737.8	6681.0	6718.9	6695.2	6671.6	6718.9	6647.9
17.5°	6420.8	6416.0	6382.9	6359.3	6368.7	6364.0	6387.7	6354.5
20°	6018.6	6028.1	6009.1	5999.7	5985.5	5952.4	5980.7	5942.9
22.5°	5583.3	5592.7	5611.7	5573.8	5578.6	5531.2	5573.8	5531.2
25°	5143.2	5138.5	5114.9	5095.9	5043.9	4991.8	4982.4	4949.3
27.5°	4660.6	4627.5	4570.7	4509.2	4428.8	4357.8	4353.1	4329.4
30°	4130.7	4059.7	3955.6	3856.3	3733.2	3624.4	3624.4	3586.6
32.5°	3572.4	3411.5	3269.5	3146.5	2985.6	2924.1	2862.6	2829.5
35°	2905.2	2763.3	2592.9	2389.5	2313.8	2162.3	2171.8	2096.1
37.5°	2275.9	2100.8	1940.0	1774.3	1641.9	1570.9	1533.0	1495.2
40°	1689.2	1518.8	1343.8	1234.9	1116.7	1055.1	1031.5	1022.0
42.5°	1154.5	1012.6	899.0	809.1	747.6	681.4	662.4	653.0
45°	752.3	671.9	567.8	496.8	454.2	416.4	416.4	402.2
47.5°	449.5	397.5	345.4	298.1	269.7	246.0	236.6	231.8
50°	250.8	222.4	194.0	175.1	156.1	141.9	137.2	137.2
52.5°	137.2	123.0	113.6	99.4	89.9	89.9	89.9	85.2
55°	71.0	71.0	71.0	71.0	66.2	66.2	66.2	61.5
57.5°	47.3	47.3	52.0	52.0	52.0	47.3	47.3	47.3
60°	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
62.5°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
65°	18.9	23.7	23.7	23.7	23.7	18.9	18.9	18.9
67.5°	14.2	18.9	18.9	18.9	14.2	14.2	14.2	14.2
70°	14.2	14.2	14.2	14.2	14.2	9.5	9.5	9.5
72.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
75°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	4.7	4.7	4.7	4.7	4.7	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - 90°-270°









(END OF REPORT)