

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: P209377

Luminaire Tested: **LDSQ6B50D010 EU6B30509050 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209377
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: LDSQ6B50D010 EU6B30509050 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: 4582.7 lumens
Efficiency: N/A
Efficacy: 78.0 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

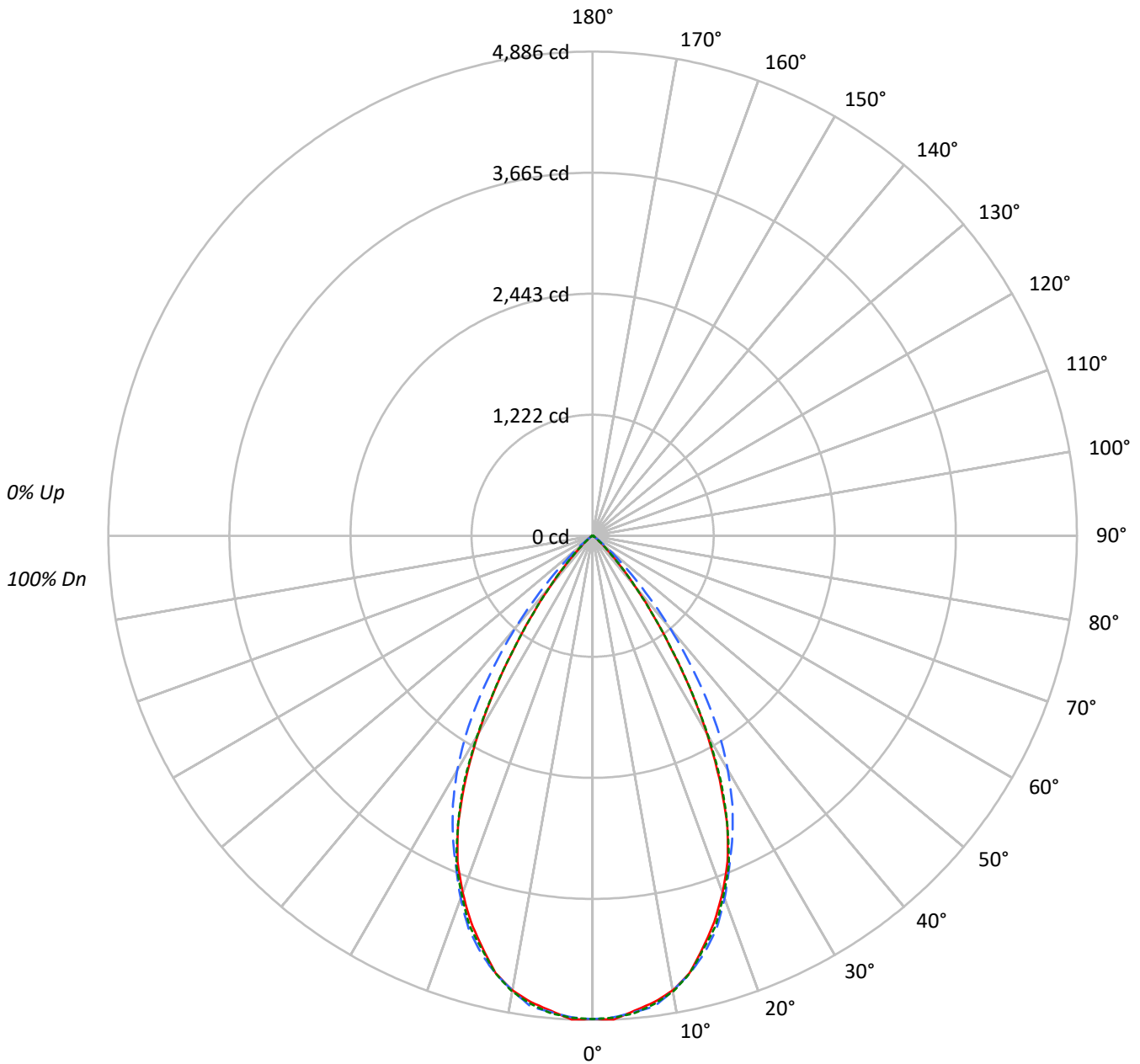
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	456.5	10.0
10°-20°	1214.5	26.5
20°-30°	1490.5	32.5
30°-40°	1028.9	22.5
40°-50°	321.7	7.0
50°-60°	50.2	1.1
60°-70°	14.5	0.3
70°-80°	4.8	0.1
80°-90°	1.1	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°	3161.5	69.0
0°-40°	4190.4	91.4
0°-60°	4562.4	99.6
0°-90°	4582.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4582.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4877	4877	4877	4877	4877	
5°	4812	4831	4824	4826	4837	455
15°	4302	4364	4357	4351	4317	1203
25°	3211	3294	3337	3316	3214	1439
35°	1355	1602	1988	1618	1361	866
45°	255	349	559	346	261	228
55°	43	46	52	46	40	42
65°	12	15	12	15	12	14
75°	3	3	3	3	3	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7
2.5°	4885.9	4818.3	4861.3	4852.1	4876.7	4892.0	4876.7	4904.3	4885.9	4864.4	4870.5
5°	4812.1	4821.4	4818.3	4824.4	4830.6	4830.6	4861.3	4864.4	4870.5	4824.4	4836.7
7.5°	4747.6	4747.6	4763.0	4756.8	4778.3	4772.2	4775.3	4799.8	4802.9	4790.6	4781.4
10°	4658.5	4646.2	4630.8	4630.8	4658.5	4661.6	4686.1	4689.2	4707.7	4658.5	4664.6
12.5°	4520.2	4514.1	4489.5	4501.8	4523.3	4511.0	4550.9	4554.0	4547.9	4526.4	4538.6
15°	4302.0	4326.6	4320.5	4317.4	4366.6	4360.4	4357.3	4366.6	4369.6	4357.3	4348.1
17.5°	4083.9	4105.4	4108.4	4114.6	4123.8	4133.0	4145.3	4179.1	4166.8	4157.6	4188.3
20°	3831.9	3822.7	3847.2	3871.8	3881.0	3881.0	3899.5	3924.1	3905.6	3893.3	3896.4
22.5°	3558.4	3573.8	3561.5	3586.1	3598.3	3613.7	3632.1	3653.7	3638.3	3604.5	3644.4
25°	3211.2	3220.4	3260.3	3257.3	3275.7	3312.6	3340.2	3340.2	3340.2	3337.1	3337.1
27.5°	2774.8	2768.7	2817.8	2851.6	2897.7	2956.1	2993.0	3051.4	3060.6	3051.4	3029.9
30°	2307.7	2301.6	2363.0	2406.1	2489.0	2516.7	2618.1	2673.4	2731.8	2728.7	2713.4
32.5°	1822.2	1834.5	1883.7	1945.1	2012.7	2098.8	2194.0	2317.0	2369.2	2381.5	2353.8
35°	1355.1	1373.6	1419.7	1471.9	1554.9	1650.1	1782.3	1899.0	1988.2	1988.2	1966.6
37.5°	977.2	983.3	1026.3	1060.1	1146.2	1232.2	1345.9	1505.7	1561.0	1582.5	1561.0
40°	666.8	666.8	691.4	728.3	798.9	872.7	977.2	1097.0	1176.9	1210.7	1173.8
42.5°	424.1	430.2	448.6	473.2	525.5	590.0	669.9	759.0	817.4	842.0	808.2
45°	255.0	261.2	276.6	295.0	328.8	368.7	424.1	488.6	537.8	559.3	543.9
47.5°	153.6	159.8	165.9	178.2	202.8	230.5	258.1	295.0	325.7	328.8	322.7
50°	89.1	89.1	95.3	104.5	116.8	132.1	147.5	169.0	178.2	190.5	178.2
52.5°	58.4	58.4	58.4	61.5	67.6	73.7	79.9	92.2	98.3	98.3	95.3
55°	43.0	43.0	43.0	43.0	46.1	46.1	46.1	49.2	52.2	52.2	52.2
57.5°	30.7	30.7	30.7	33.8	33.8	33.8	30.7	30.7	30.7	30.7	30.7
60°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	21.5	21.5	21.5
62.5°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
65°	12.3	12.3	12.3	15.4	15.4	15.4	15.4	12.3	12.3	12.3	12.3
67.5°	9.2	9.2	9.2	12.3	12.3	12.3	12.3	12.3	9.2	9.2	9.2
70°	6.1	6.1	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
72.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7	4876.7
2.5°	4889.0	4873.6	4873.6	4873.6	4867.4	4873.6	4882.8	4867.4
5°	4836.7	4842.9	4815.2	4836.7	4845.9	4830.6	4867.4	4836.7
7.5°	4790.6	4781.4	4738.4	4769.1	4787.5	4793.7	4790.6	4766.0
10°	4698.4	4676.9	4658.5	4658.5	4652.3	4649.3	4683.1	4670.8
12.5°	4532.5	4547.9	4520.2	4535.6	4523.3	4526.4	4529.4	4523.3
15°	4391.1	4375.8	4338.9	4363.5	4348.1	4332.8	4363.5	4317.4
17.5°	4169.9	4166.8	4145.3	4130.0	4136.1	4133.0	4148.4	4126.9
20°	3908.7	3914.9	3902.6	3896.4	3887.2	3865.7	3884.1	3859.5
22.5°	3626.0	3632.1	3644.4	3619.9	3622.9	3592.2	3619.9	3592.2
25°	3340.2	3337.1	3321.8	3309.5	3275.7	3241.9	3235.7	3214.2
27.5°	3026.8	3005.3	2968.4	2928.5	2876.2	2830.1	2827.1	2811.7
30°	2682.6	2636.5	2568.9	2504.4	2424.5	2353.8	2353.8	2329.2
32.5°	2320.0	2215.5	2123.4	2043.5	1939.0	1899.0	1859.1	1837.6
35°	1886.7	1794.6	1683.9	1551.8	1502.6	1404.3	1410.5	1361.3
37.5°	1478.1	1364.4	1259.9	1152.3	1066.3	1020.2	995.6	971.0
40°	1097.0	986.4	872.7	802.0	725.2	685.3	669.9	663.7
42.5°	749.8	657.6	583.8	525.5	485.5	442.5	430.2	424.1
45°	488.6	436.3	368.7	322.7	295.0	270.4	270.4	261.2
47.5°	291.9	258.1	224.3	193.6	175.2	159.8	153.6	150.6
50°	162.9	144.4	126.0	113.7	101.4	92.2	89.1	89.1
52.5°	89.1	79.9	73.7	64.5	58.4	58.4	58.4	55.3
55°	46.1	46.1	46.1	46.1	43.0	43.0	43.0	39.9
57.5°	30.7	30.7	33.8	33.8	33.8	30.7	30.7	30.7
60°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
62.5°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
65°	12.3	15.4	15.4	15.4	15.4	12.3	12.3	12.3
67.5°	9.2	12.3	12.3	12.3	9.2	9.2	9.2	9.2
70°	9.2	9.2	9.2	9.2	9.2	6.1	6.1	6.1
72.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1	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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°









(END OF REPORT)