

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: P209369

Luminaire Tested: **LDSQ6B50D010 EU6B30508035 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209369
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 EU6B30508035 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 3500 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5393.2 lumens
Efficiency: N/A
Efficacy: 91.8 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

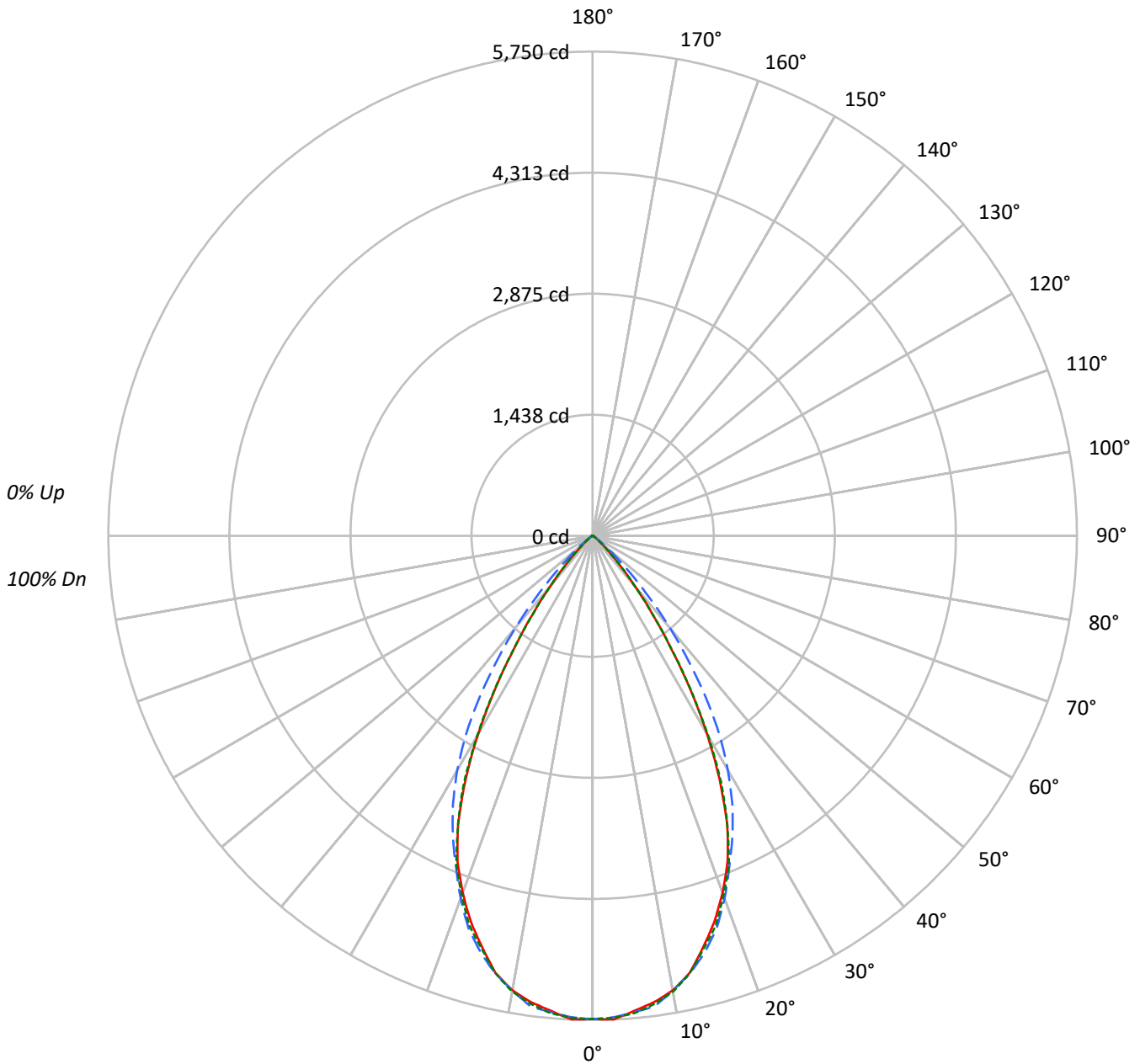
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	537.3	10.0
10°-20°	1429.2	26.5
20°-30°	1754.1	32.5
30°-40°	1210.9	22.5
40°-50°	378.6	7.0
50°-60°	59.1	1.1
60°-70°	17.1	0.3
70°-80°	5.6	0.1
80°-90°	1.2	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°	3720.6	69.0
0°-40°	4931.5	91.4
0°-60°	5369.2	99.6
0°-90°	5393.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5393.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5739	5739	5739	5739	5739	
5°	5663	5685	5678	5679	5692	535
15°	5063	5135	5128	5121	5081	1416
25°	3779	3877	3927	3902	3783	1693
35°	1595	1886	2340	1904	1602	1019
45°	300	410	658	407	307	269
55°	51	54	62	54	47	49
65°	14	18	14	18	14	16
75°	4	4	4	4	4	5
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°	5739.1	5739.1	5739.1	5739.1	5739.1	5739.1	5739.1	5739.1	5739.1	5739.1	5739.1
2.5°	5749.9	5670.4	5721.0	5710.2	5739.1	5757.2	5739.1	5771.6	5749.9	5724.6	5731.9
5°	5663.2	5674.0	5670.4	5677.6	5684.9	5684.9	5721.0	5724.6	5731.9	5677.6	5692.1
7.5°	5587.2	5587.2	5605.3	5598.1	5623.4	5616.1	5619.8	5648.7	5652.3	5637.8	5627.0
10°	5482.3	5467.9	5449.8	5449.8	5482.3	5486.0	5514.9	5518.5	5540.2	5482.3	5489.6
12.5°	5319.6	5312.4	5283.4	5297.9	5323.2	5308.8	5355.8	5359.4	5352.2	5326.8	5341.3
15°	5062.8	5091.8	5084.5	5080.9	5138.8	5131.6	5127.9	5138.8	5142.4	5127.9	5117.1
17.5°	4806.1	4831.4	4835.0	4842.3	4853.1	4863.9	4878.4	4918.2	4903.7	4892.9	4929.0
20°	4509.5	4498.7	4527.6	4556.6	4567.4	4567.4	4589.1	4618.0	4596.3	4581.9	4585.5
22.5°	4187.7	4205.8	4191.3	4220.2	4234.7	4252.8	4274.5	4299.8	4281.7	4241.9	4289.0
25°	3779.1	3789.9	3836.9	3833.3	3855.0	3898.4	3930.9	3930.9	3930.9	3927.3	3927.3
27.5°	3265.5	3258.3	3316.2	3355.9	3410.2	3478.9	3522.3	3591.0	3601.9	3591.0	3565.7
30°	2715.9	2708.6	2780.9	2831.6	2929.2	2961.8	3081.1	3146.2	3214.9	3211.3	3193.2
32.5°	2144.5	2158.9	2216.8	2289.1	2368.7	2469.9	2582.1	2726.7	2788.2	2802.6	2770.1
35°	1594.8	1616.5	1670.7	1732.2	1829.9	1942.0	2097.5	2234.9	2339.8	2339.8	2314.4
37.5°	1150.0	1157.2	1207.9	1247.6	1348.9	1450.1	1583.9	1772.0	1837.1	1862.4	1837.1
40°	784.7	784.7	813.7	857.1	940.2	1027.0	1150.0	1291.0	1385.1	1424.8	1381.4
42.5°	499.1	506.3	528.0	556.9	618.4	694.3	788.4	893.2	961.9	990.9	951.1
45°	300.2	307.4	325.5	347.2	386.9	434.0	499.1	575.0	632.9	658.2	640.1
47.5°	180.8	188.0	195.3	209.7	238.7	271.2	303.8	347.2	383.3	386.9	379.7
50°	104.9	104.9	112.1	123.0	137.4	155.5	173.6	198.9	209.7	224.2	209.7
52.5°	68.7	68.7	68.7	72.3	79.6	86.8	94.0	108.5	115.7	115.7	112.1
55°	50.6	50.6	50.6	50.6	54.2	54.2	54.2	57.9	61.5	61.5	61.5
57.5°	36.2	36.2	36.2	39.8	39.8	39.8	36.2	36.2	36.2	36.2	36.2
60°	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	25.3	25.3	25.3
62.5°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
65°	14.5	14.5	14.5	18.1	18.1	18.1	18.1	14.5	14.5	14.5	14.5
67.5°	10.8	10.8	10.8	14.5	14.5	14.5	14.5	14.5	10.8	10.8	10.8
70°	7.2	7.2	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
72.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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°	5739.1	5739.1	5739.1	5739.1	5739.1	5739.1	5739.1	5739.1
2.5°	5753.6	5735.5	5735.5	5735.5	5728.2	5735.5	5746.3	5728.2
5°	5692.1	5699.3	5666.8	5692.1	5702.9	5684.9	5728.2	5692.1
7.5°	5637.8	5627.0	5576.4	5612.5	5634.2	5641.5	5637.8	5608.9
10°	5529.4	5504.0	5482.3	5482.3	5475.1	5471.5	5511.3	5496.8
12.5°	5334.1	5352.2	5319.6	5337.7	5323.2	5326.8	5330.5	5323.2
15°	5167.7	5149.6	5106.2	5135.2	5117.1	5099.0	5135.2	5080.9
17.5°	4907.3	4903.7	4878.4	4860.3	4867.6	4863.9	4882.0	4856.7
20°	4600.0	4607.2	4592.7	4585.5	4574.6	4549.3	4571.0	4542.1
22.5°	4267.3	4274.5	4289.0	4260.0	4263.6	4227.5	4260.0	4227.5
25°	3930.9	3927.3	3909.2	3894.8	3855.0	3815.2	3808.0	3782.7
27.5°	3562.1	3536.8	3493.4	3446.4	3384.9	3330.6	3327.0	3308.9
30°	3157.0	3102.8	3023.2	2947.3	2853.3	2770.1	2770.1	2741.2
32.5°	2730.3	2607.4	2498.9	2404.9	2281.9	2234.9	2187.9	2162.6
35°	2220.4	2111.9	1981.7	1826.2	1768.4	1652.7	1659.9	1602.0
37.5°	1739.4	1605.6	1482.7	1356.1	1254.9	1200.6	1171.7	1142.8
40°	1291.0	1160.8	1027.0	943.9	853.5	806.4	788.4	781.1
42.5°	882.4	773.9	687.1	618.4	571.4	520.7	506.3	499.1
45°	575.0	513.5	434.0	379.7	347.2	318.2	318.2	307.4
47.5°	343.6	303.8	264.0	227.8	206.1	188.0	180.8	177.2
50°	191.7	170.0	148.3	133.8	119.3	108.5	104.9	104.9
52.5°	104.9	94.0	86.8	75.9	68.7	68.7	68.7	65.1
55°	54.2	54.2	54.2	54.2	50.6	50.6	50.6	47.0
57.5°	36.2	36.2	39.8	39.8	39.8	36.2	36.2	36.2
60°	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
62.5°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
65°	14.5	18.1	18.1	18.1	18.1	14.5	14.5	14.5
67.5°	10.8	14.5	14.5	14.5	10.8	10.8	10.8	10.8
70°	10.8	10.8	10.8	10.8	10.8	7.2	7.2	7.2
72.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	3.6	3.6	3.6	3.6	3.6	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)