

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: P209370

Luminaire Tested: **LDSQ6B50D010 EU6B30508040 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209370
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 EU6B30508040 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 4000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5446.9 lumens
Efficiency: N/A
Efficacy: 92.7 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

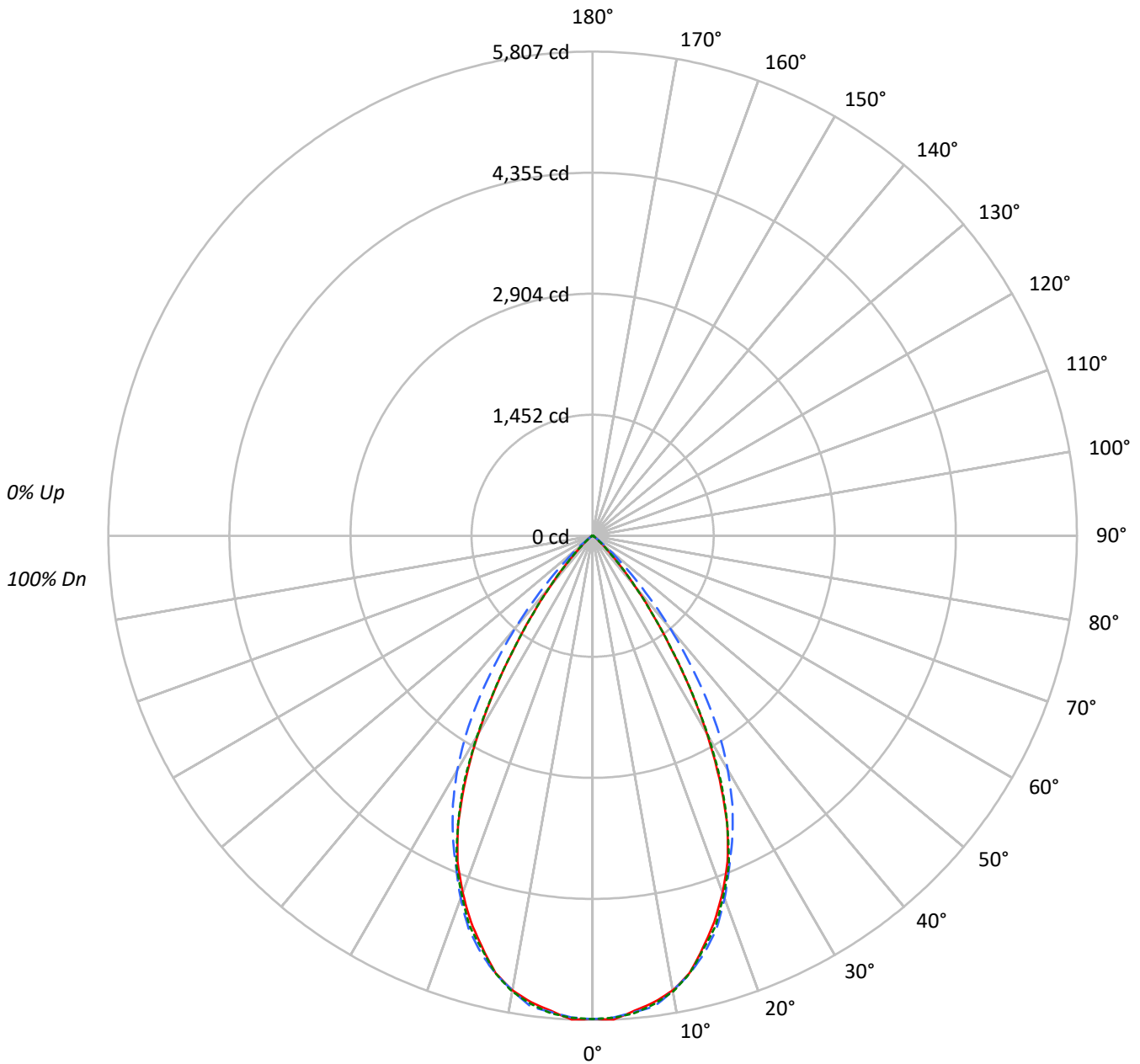
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	542.6	10.0
10°-20°	1443.5	26.5
20°-30°	1771.6	32.5
30°-40°	1223.0	22.5
40°-50°	382.3	7.0
50°-60°	59.7	1.1
60°-70°	17.3	0.3
70°-80°	5.7	0.1
80°-90°	1.3	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°	3757.7	69.0
0°-40°	4980.6	91.4
0°-60°	5422.7	99.6
0°-90°	5446.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5446.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5796	5796	5796	5796	5796	
5°	5720	5741	5734	5736	5749	541
15°	5113	5186	5179	5172	5132	1430
25°	3817	3915	3966	3941	3820	1710
35°	1611	1905	2363	1923	1618	1029
45°	303	415	665	411	310	272
55°	51	55	62	55	48	50
65°	15	18	15	18	15	16
75°	4	4	4	4	4	5
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°	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2
2.5°	5807.2	5726.8	5778.0	5767.0	5796.2	5814.5	5796.2	5829.1	5807.2	5781.6	5788.9
5°	5719.5	5730.5	5726.8	5734.1	5741.4	5741.4	5778.0	5781.6	5788.9	5734.1	5748.8
7.5°	5642.8	5642.8	5661.1	5653.8	5679.4	5672.1	5675.7	5704.9	5708.6	5694.0	5683.0
10°	5536.9	5522.3	5504.0	5504.0	5536.9	5540.6	5569.8	5573.4	5595.4	5536.9	5544.2
12.5°	5372.6	5365.3	5336.0	5350.7	5376.2	5361.6	5409.1	5412.7	5405.4	5379.9	5394.5
15°	5113.3	5142.5	5135.2	5131.5	5189.9	5182.6	5179.0	5189.9	5193.6	5179.0	5168.0
17.5°	4853.9	4879.5	4883.2	4890.5	4901.4	4912.4	4927.0	4967.2	4952.5	4941.6	4978.1
20°	4554.4	4543.5	4572.7	4601.9	4612.9	4612.9	4634.8	4664.0	4642.1	4627.5	4631.1
22.5°	4229.4	4247.7	4233.0	4262.3	4276.9	4295.1	4317.0	4342.6	4324.3	4284.2	4331.7
25°	3816.7	3827.6	3875.1	3871.5	3893.4	3937.2	3970.1	3970.1	3970.1	3966.4	3966.4
27.5°	3298.0	3290.7	3349.2	3389.4	3444.1	3513.5	3557.4	3626.8	3637.7	3626.8	3601.2
30°	2742.9	2735.6	2808.6	2859.8	2958.4	2991.3	3111.8	3177.5	3246.9	3243.3	3225.0
32.5°	2165.8	2180.4	2238.9	2311.9	2392.3	2494.5	2607.8	2753.9	2815.9	2830.5	2797.7
35°	1610.7	1632.6	1687.4	1749.5	1848.1	1961.3	2118.3	2257.1	2363.1	2363.1	2337.5
37.5°	1161.4	1168.7	1219.9	1260.1	1362.3	1464.6	1599.7	1789.6	1855.4	1880.9	1855.4
40°	792.6	792.6	821.8	865.6	949.6	1037.3	1161.4	1303.9	1398.8	1439.0	1395.2
42.5°	504.0	511.3	533.2	562.5	624.5	701.2	796.2	902.1	971.5	1000.7	960.6
45°	303.1	310.4	328.7	350.6	390.8	438.3	504.0	580.7	639.2	664.7	646.5
47.5°	182.6	189.9	197.2	211.8	241.1	273.9	306.8	350.6	387.1	390.8	383.5
50°	105.9	105.9	113.2	124.2	138.8	157.0	175.3	200.9	211.8	226.4	211.8
52.5°	69.4	69.4	69.4	73.0	80.4	87.7	95.0	109.6	116.9	116.9	113.2
55°	51.1	51.1	51.1	51.1	54.8	54.8	54.8	58.4	62.1	62.1	62.1
57.5°	36.5	36.5	36.5	40.2	40.2	40.2	36.5	36.5	36.5	36.5	36.5
60°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	25.6	25.6	25.6
62.5°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
65°	14.6	14.6	14.6	18.3	18.3	18.3	18.3	14.6	14.6	14.6	14.6
67.5°	11.0	11.0	11.0	14.6	14.6	14.6	14.6	14.6	11.0	11.0	11.0
70°	7.3	7.3	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
72.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
75°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	0.0	0.0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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°	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2	5796.2
2.5°	5810.8	5792.6	5792.6	5792.6	5785.3	5792.6	5803.5	5785.3
5°	5748.8	5756.1	5723.2	5748.8	5759.7	5741.4	5785.3	5748.8
7.5°	5694.0	5683.0	5631.9	5668.4	5690.3	5697.6	5694.0	5664.8
10°	5584.4	5558.8	5536.9	5536.9	5529.6	5526.0	5566.1	5551.5
12.5°	5387.2	5405.4	5372.6	5390.8	5376.2	5379.9	5383.5	5376.2
15°	5219.2	5200.9	5157.1	5186.3	5168.0	5149.8	5186.3	5131.5
17.5°	4956.2	4952.5	4927.0	4908.7	4916.0	4912.4	4930.6	4905.1
20°	4645.8	4653.1	4638.4	4631.1	4620.2	4594.6	4616.5	4587.3
22.5°	4309.7	4317.0	4331.7	4302.4	4306.1	4269.6	4302.4	4269.6
25°	3970.1	3966.4	3948.2	3933.6	3893.4	3853.2	3845.9	3820.3
27.5°	3597.5	3572.0	3528.1	3480.7	3418.6	3363.8	3360.1	3341.9
30°	3188.5	3133.7	3053.3	2976.6	2881.7	2797.7	2797.7	2768.5
32.5°	2757.5	2633.3	2523.8	2428.8	2304.6	2257.1	2209.7	2184.1
35°	2242.5	2133.0	2001.5	1844.4	1786.0	1669.1	1676.4	1618.0
37.5°	1756.8	1621.6	1497.5	1369.6	1267.4	1212.6	1183.4	1154.1
40°	1303.9	1172.4	1037.3	953.3	861.9	814.5	796.2	788.9
42.5°	891.2	781.6	693.9	624.5	577.1	525.9	511.3	504.0
45°	580.7	518.6	438.3	383.5	350.6	321.4	321.4	310.4
47.5°	347.0	306.8	266.6	230.1	208.2	189.9	182.6	179.0
50°	193.6	171.7	149.7	135.1	120.5	109.6	105.9	105.9
52.5°	105.9	95.0	87.7	76.7	69.4	69.4	69.4	65.7
55°	54.8	54.8	54.8	54.8	51.1	51.1	51.1	47.5
57.5°	36.5	36.5	40.2	40.2	40.2	36.5	36.5	36.5
60°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
62.5°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
65°	14.6	18.3	18.3	18.3	18.3	14.6	14.6	14.6
67.5°	11.0	14.6	14.6	14.6	11.0	11.0	11.0	11.0
70°	11.0	11.0	11.0	11.0	11.0	7.3	7.3	7.3
72.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
75°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7	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



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









(END OF REPORT)