

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: P209368

Luminaire Tested: **LDSQ6B50D010 EU6B30508030 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209368
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 EU6B30508030 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: 5258.4 lumens
Efficiency: N/A
Efficacy: 89.5 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

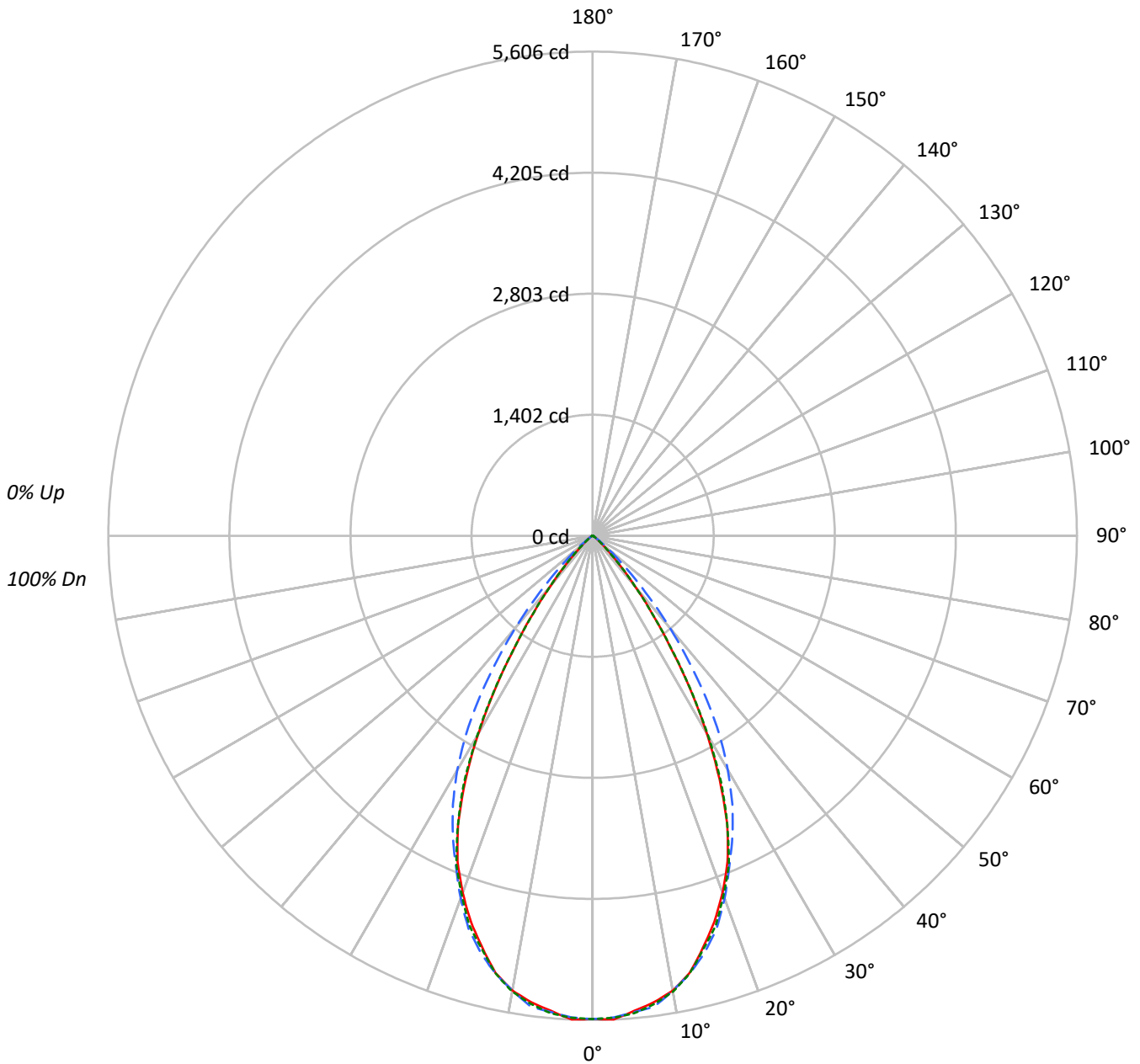
Input Watts (W): 58.77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	523.9	10.0
10°-20°	1393.5	26.5
20°-30°	1710.3	32.5
30°-40°	1180.6	22.5
40°-50°	369.1	7.0
50°-60°	57.7	1.1
60°-70°	16.7	0.3
70°-80°	5.5	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°	3627.6	69.0
0°-40°	4808.3	91.4
0°-60°	5235.1	99.6
0°-90°	5258.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5258.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5596	5596	5596	5596	5596	
5°	5522	5543	5536	5538	5550	522
15°	4936	5007	5000	4993	4954	1381
25°	3685	3780	3829	3805	3688	1651
35°	1555	1839	2281	1856	1562	993
45°	293	400	642	397	300	262
55°	49	53	60	53	46	48
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7
2.5°	5606.3	5528.7	5578.1	5567.5	5595.7	5613.3	5595.7	5627.4	5606.3	5581.6	5588.6
5°	5521.6	5532.2	5528.7	5535.7	5542.8	5542.8	5578.1	5581.6	5588.6	5535.7	5549.9
7.5°	5447.6	5447.6	5465.2	5458.2	5482.9	5475.8	5479.3	5507.5	5511.1	5497.0	5486.4
10°	5345.3	5331.2	5313.6	5313.6	5345.3	5348.9	5377.1	5380.6	5401.8	5345.3	5352.4
12.5°	5186.7	5179.6	5151.4	5165.5	5190.2	5176.1	5221.9	5225.5	5218.4	5193.7	5207.8
15°	4936.3	4964.5	4957.5	4954.0	5010.4	5003.3	4999.8	5010.4	5013.9	4999.8	4989.2
17.5°	4686.0	4710.7	4714.2	4721.3	4731.8	4742.4	4756.5	4795.3	4781.2	4770.6	4805.9
20°	4396.9	4386.3	4414.5	4442.7	4453.3	4453.3	4474.4	4502.6	4481.5	4467.4	4470.9
22.5°	4083.1	4100.7	4086.6	4114.8	4128.9	4146.5	4167.7	4192.4	4174.7	4135.9	4181.8
25°	3684.6	3695.2	3741.0	3737.5	3758.7	3801.0	3832.7	3832.7	3832.7	3829.2	3829.2
27.5°	3183.9	3176.9	3233.3	3272.1	3325.0	3392.0	3434.3	3501.3	3511.9	3501.3	3476.6
30°	2648.0	2640.9	2711.5	2760.8	2856.0	2887.8	3004.1	3067.6	3134.6	3131.0	3113.4
32.5°	2090.9	2105.0	2161.4	2231.9	2309.5	2408.2	2517.5	2658.6	2718.5	2732.6	2700.9
35°	1554.9	1576.1	1629.0	1688.9	1784.1	1893.4	2045.1	2179.0	2281.3	2281.3	2256.6
37.5°	1121.3	1128.3	1177.7	1216.5	1315.2	1413.9	1544.4	1727.7	1791.2	1815.9	1791.2
40°	765.1	765.1	793.3	835.7	916.7	1001.4	1121.3	1258.8	1350.4	1389.2	1346.9
42.5°	486.6	493.6	514.8	543.0	602.9	677.0	768.7	870.9	937.9	966.1	927.3
45°	292.7	299.7	317.3	338.5	377.3	423.1	486.6	560.6	617.0	641.7	624.1
47.5°	176.3	183.3	190.4	204.5	232.7	264.4	296.2	338.5	373.8	377.3	370.2
50°	102.3	102.3	109.3	119.9	134.0	151.6	169.2	193.9	204.5	218.6	204.5
52.5°	67.0	67.0	67.0	70.5	77.6	84.6	91.7	105.8	112.8	112.8	109.3
55°	49.4	49.4	49.4	49.4	52.9	52.9	52.9	56.4	59.9	59.9	59.9
57.5°	35.3	35.3	35.3	38.8	38.8	38.8	35.3	35.3	35.3	35.3	35.3
60°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	24.7	24.7	24.7
62.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
65°	14.1	14.1	14.1	17.6	17.6	17.6	17.6	14.1	14.1	14.1	14.1
67.5°	10.6	10.6	10.6	14.1	14.1	14.1	14.1	14.1	10.6	10.6	10.6
70°	7.1	7.1	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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°	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7
2.5°	5609.8	5592.2	5592.2	5592.2	5585.1	5592.2	5602.7	5585.1
5°	5549.9	5556.9	5525.2	5549.9	5560.4	5542.8	5585.1	5549.9
7.5°	5497.0	5486.4	5437.0	5472.3	5493.4	5500.5	5497.0	5468.8
10°	5391.2	5366.5	5345.3	5345.3	5338.3	5334.8	5373.6	5359.5
12.5°	5200.8	5218.4	5186.7	5204.3	5190.2	5193.7	5197.3	5190.2
15°	5038.6	5021.0	4978.6	5006.9	4989.2	4971.6	5006.9	4954.0
17.5°	4784.7	4781.2	4756.5	4738.9	4745.9	4742.4	4760.0	4735.4
20°	4485.0	4492.1	4478.0	4470.9	4460.3	4435.7	4456.8	4428.6
22.5°	4160.6	4167.7	4181.8	4153.6	4157.1	4121.8	4153.6	4121.8
25°	3832.7	3829.2	3811.6	3797.5	3758.7	3719.9	3712.8	3688.1
27.5°	3473.1	3448.4	3406.1	3360.2	3300.3	3247.4	3243.9	3226.2
30°	3078.2	3025.3	2947.7	2873.7	2782.0	2700.9	2700.9	2672.7
32.5°	2662.1	2542.2	2436.4	2344.8	2224.9	2179.0	2133.2	2108.5
35°	2164.9	2059.2	1932.2	1780.6	1724.2	1611.4	1618.4	1562.0
37.5°	1696.0	1565.5	1445.6	1322.2	1223.5	1170.6	1142.4	1114.2
40°	1258.8	1131.8	1001.4	920.3	832.1	786.3	768.7	761.6
42.5°	860.3	754.6	669.9	602.9	557.1	507.7	493.6	486.6
45°	560.6	500.7	423.1	370.2	338.5	310.3	310.3	299.7
47.5°	335.0	296.2	257.4	222.1	201.0	183.3	176.3	172.8
50°	186.9	165.7	144.6	130.5	116.4	105.8	102.3	102.3
52.5°	102.3	91.7	84.6	74.0	67.0	67.0	67.0	63.5
55°	52.9	52.9	52.9	52.9	49.4	49.4	49.4	45.8
57.5°	35.3	35.3	38.8	38.8	38.8	35.3	35.3	35.3
60°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
62.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
65°	14.1	17.6	17.6	17.6	17.6	14.1	14.1	14.1
67.5°	10.6	14.1	14.1	14.1	10.6	10.6	10.6	10.6
70°	10.6	10.6	10.6	10.6	10.6	7.1	7.1	7.1
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
75°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	3.5	3.5	3.5	3.5	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)