

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: P209311

Luminaire Tested: **LDSQ6B10D010 EU6B10209030 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209311
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: LDSQ6B10D010 EU6B10209030 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-10.05 W DE010-10.58 W D5LT-10.2 W DMX-10.6 W DL2-11.8 W
DL3-11.1 W DLE-11.39 W
Light Source: HIGH LUMEN LED 3000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 898.0 lumens
Efficiency: N/A
Efficacy: 89.4 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

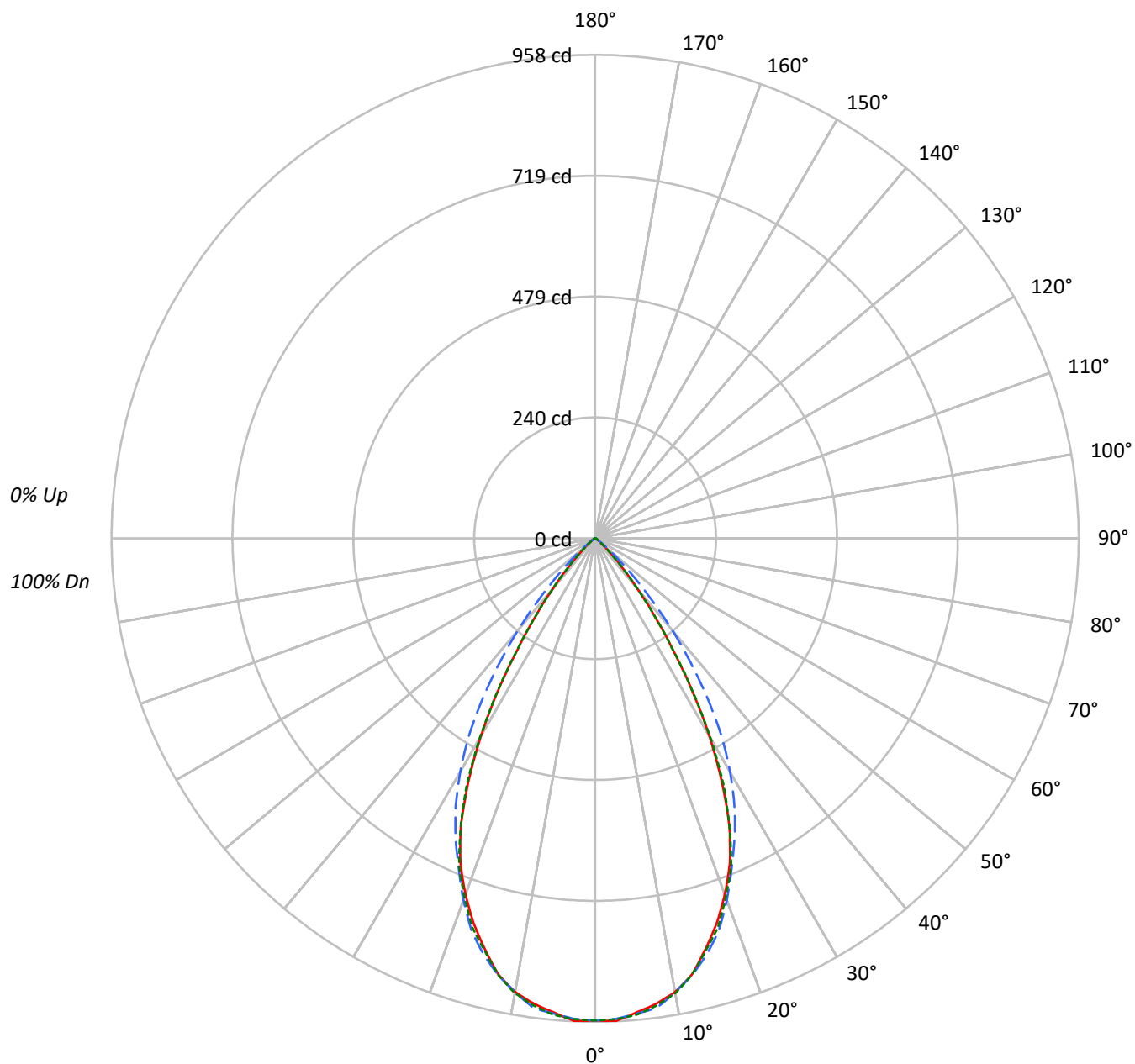
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	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°	89.5	10.0
10°-20°	238.0	26.5
20°-30°	292.1	32.5
30°-40°	201.6	22.5
40°-50°	63.0	7.0
50°-60°	9.8	1.1
60°-70°	2.8	0.3
70°-80°	0.9	0.1
80°-90°	0.2	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°	619.6	69.0
0°-40°	821.2	91.4
0°-60°	894.1	99.6
0°-90°	898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	943	947	945	946	948	89
15°	843	855	854	853	846	236
25°	629	646	654	650	630	282
35°	266	314	390	317	267	170
45°	50	68	110	68	51	45
55°	8	9	10	9	8	8
65°	2	3	2	3	2	3
75°	1	1	1	1	1	1
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°	955.7	955.7	955.7	955.7	955.7	955.7	955.7	955.7	955.7	955.7	955.7
2.5°	957.5	944.2	952.7	950.9	955.7	958.7	955.7	961.1	957.5	953.3	954.5
5°	943.0	944.8	944.2	945.4	946.6	946.6	952.7	953.3	954.5	945.4	947.8
7.5°	930.4	930.4	933.4	932.2	936.4	935.2	935.8	940.6	941.2	938.8	937.0
10°	912.9	910.5	907.5	907.5	912.9	913.5	918.3	918.9	922.6	912.9	914.1
12.5°	885.8	884.6	879.8	882.2	886.4	884.0	891.8	892.4	891.2	887.0	889.4
15°	843.1	847.9	846.7	846.1	855.7	854.5	853.9	855.7	856.3	853.9	852.1
17.5°	800.3	804.5	805.1	806.3	808.1	809.9	812.4	819.0	816.6	814.8	820.8
20°	750.9	749.1	753.9	758.8	760.6	760.6	764.2	769.0	765.4	763.0	763.6
22.5°	697.3	700.3	697.9	702.8	705.2	708.2	711.8	716.0	713.0	706.4	714.2
25°	629.3	631.1	638.9	638.3	641.9	649.2	654.6	654.6	654.6	654.0	654.0
27.5°	543.8	542.6	552.2	558.8	567.9	579.3	586.5	598.0	599.8	598.0	593.8
30°	452.2	451.0	463.1	471.5	487.8	493.2	513.1	523.9	535.3	534.7	531.7
32.5°	357.1	359.5	369.1	381.2	394.4	411.3	430.0	454.0	464.3	466.7	461.3
35°	265.6	269.2	278.2	288.4	304.7	323.4	349.3	372.2	389.6	389.6	385.4
37.5°	191.5	192.7	201.1	207.8	224.6	241.5	263.8	295.1	305.9	310.1	305.9
40°	130.7	130.7	135.5	142.7	156.6	171.0	191.5	215.0	230.6	237.3	230.0
42.5°	83.1	84.3	87.9	92.7	103.0	115.6	131.3	148.7	160.2	165.0	158.4
45°	50.0	51.2	54.2	57.8	64.4	72.3	83.1	95.7	105.4	109.6	106.6
47.5°	30.1	31.3	32.5	34.9	39.7	45.2	50.6	57.8	63.8	64.4	63.2
50°	17.5	17.5	18.7	20.5	22.9	25.9	28.9	33.1	34.9	37.3	34.9
52.5°	11.4	11.4	11.4	12.0	13.2	14.5	15.7	18.1	19.3	19.3	18.7
55°	8.4	8.4	8.4	8.4	9.0	9.0	9.0	9.6	10.2	10.2	10.2
57.5°	6.0	6.0	6.0	6.6	6.6	6.6	6.0	6.0	6.0	6.0	6.0
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.2	4.2	4.2
62.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	2.4	2.4	2.4	3.0	3.0	3.0	3.0	2.4	2.4	2.4	2.4
67.5°	1.8	1.8	1.8	2.4	2.4	2.4	2.4	2.4	1.8	1.8	1.8
70°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	955.7	955.7	955.7	955.7	955.7	955.7	955.7	955.7
2.5°	958.1	955.1	955.1	955.1	953.9	955.1	956.9	953.9
5°	947.8	949.0	943.6	947.8	949.6	946.6	953.9	947.8
7.5°	938.8	937.0	928.6	934.6	938.2	939.4	938.8	934.0
10°	920.7	916.5	912.9	912.9	911.7	911.1	917.7	915.3
12.5°	888.2	891.2	885.8	888.8	886.4	887.0	887.6	886.4
15°	860.5	857.5	850.3	855.1	852.1	849.1	855.1	846.1
17.5°	817.2	816.6	812.4	809.3	810.5	809.9	813.0	808.7
20°	766.0	767.2	764.8	763.6	761.8	757.6	761.2	756.3
22.5°	710.6	711.8	714.2	709.4	710.0	704.0	709.4	704.0
25°	654.6	654.0	651.0	648.6	641.9	635.3	634.1	629.9
27.5°	593.2	588.9	581.7	573.9	563.6	554.6	554.0	551.0
30°	525.7	516.7	503.4	490.8	475.1	461.3	461.3	456.5
32.5°	454.7	434.2	416.1	400.5	380.0	372.2	364.3	360.1
35°	369.7	351.7	330.0	304.1	294.5	275.2	276.4	266.8
37.5°	289.7	267.4	246.9	225.8	209.0	199.9	195.1	190.3
40°	215.0	193.3	171.0	157.2	142.1	134.3	131.3	130.1
42.5°	146.9	128.9	114.4	103.0	95.1	86.7	84.3	83.1
45°	95.7	85.5	72.3	63.2	57.8	53.0	53.0	51.2
47.5°	57.2	50.6	44.0	37.9	34.3	31.3	30.1	29.5
50°	31.9	28.3	24.7	22.3	19.9	18.1	17.5	17.5
52.5°	17.5	15.7	14.5	12.6	11.4	11.4	11.4	10.8
55°	9.0	9.0	9.0	9.0	8.4	8.4	8.4	7.8
57.5°	6.0	6.0	6.6	6.6	6.6	6.0	6.0	6.0
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
62.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	2.4	3.0	3.0	3.0	3.0	2.4	2.4	2.4
67.5°	1.8	2.4	2.4	2.4	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6	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)