

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: P209449

Luminaire Tested: **LDSQ6B30D010 EU6B30509024 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35359)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDSQ6B30D010 EU6B30509024 6LBCSSQ1MMS
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE SHALLOW CAST METALLIC SILVER TRIM
MEDIUM DISTRIBUTION WITH MATTE METALLIC SILVER TRIM
WATTAGE D010TR-27.4 W DE010-27.95 W D5LT-27.65 W DMX-27.73 W DL2-29.56 W
DL3-29.67 W DLE-29.73 W
Light Source: HIGH LUMEN LED 2400 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2313.8 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

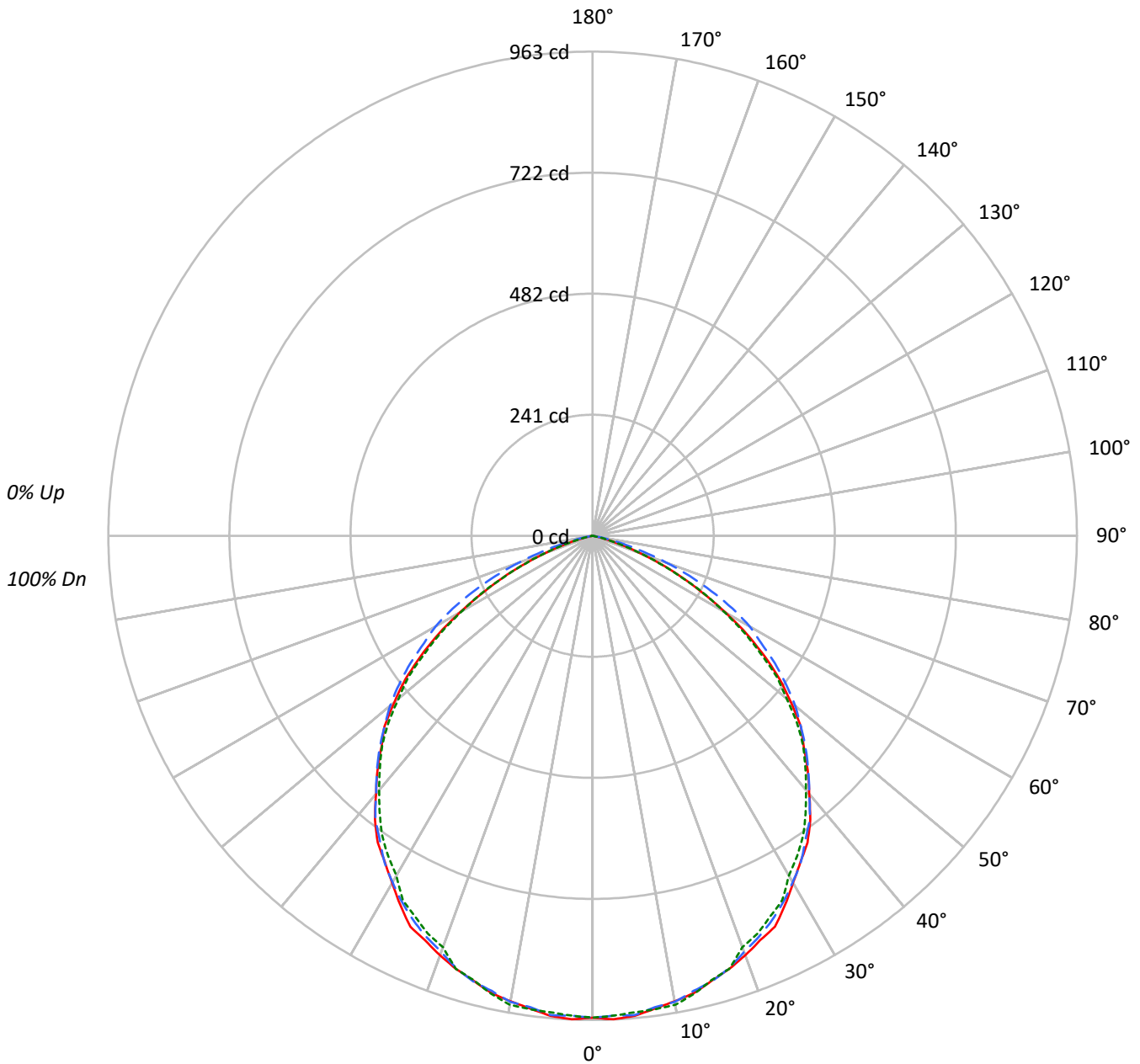
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56																			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49																			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43																			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38																			
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34																			
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28																			

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°	90.6	3.9
10°-20°	258.5	11.2
20°-30°	388.9	16.8
30°-40°	460.1	19.9
40°-50°	459.2	19.8
50°-60°	380.7	16.5
60°-70°	222.5	9.6
70°-80°	53.0	2.3
80°-90°	0.4	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°	738.0	31.9
0°-40°	1198.1	51.8
0°-60°	2038.0	88.1
0°-90°	2313.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	958	953	957	954	951	91
15°	916	915	917	913	915	259
25°	858	848	844	841	835	392
35°	745	738	738	734	729	463
45°	594	594	599	593	592	459
55°	417	432	442	430	407	370
65°	196	221	260	221	195	195
75°	28	41	64	40	27	38
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°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	962.6	957.0	961.2	952.7	958.4	952.7	954.1	951.3	957.0	955.5	954.1
5°	958.4	959.8	957.0	959.8	955.5	951.3	955.5	952.7	944.2	957.0	954.1
7.5°	948.5	949.9	947.1	951.3	948.5	942.8	954.1	945.7	944.2	945.7	951.3
10°	940.0	942.8	941.4	940.0	941.4	941.4	938.6	934.3	938.6	941.4	940.0
12.5°	931.5	935.8	932.9	930.1	927.3	928.7	931.5	924.4	924.4	927.3	935.8
15°	916.0	918.8	920.2	914.6	914.6	916.0	921.6	910.3	916.0	917.4	918.8
17.5°	903.2	904.7	904.7	900.4	903.2	899.0	903.2	897.6	903.2	901.8	904.7
20°	887.7	890.5	887.7	887.7	884.9	886.3	886.3	886.3	882.0	880.6	883.5
22.5°	870.7	870.7	867.9	870.7	867.9	866.5	873.6	862.3	873.6	863.7	872.1
25°	858.0	850.9	846.7	845.3	850.9	845.3	848.1	843.9	846.7	843.9	845.3
27.5°	828.3	824.1	822.7	824.1	824.1	822.7	828.3	812.8	822.7	821.3	821.3
30°	797.2	797.2	800.1	797.2	800.1	795.8	801.5	788.7	797.2	795.8	797.2
32.5°	769.0	770.4	770.4	773.2	769.0	770.4	770.4	766.1	769.0	770.4	767.5
35°	744.9	737.9	737.9	737.9	737.9	737.9	740.7	736.4	740.7	737.9	737.9
37.5°	711.0	703.9	703.9	702.5	709.6	705.4	712.4	706.8	706.8	709.6	709.6
40°	670.0	672.8	668.6	674.3	672.8	667.2	679.9	671.4	677.1	670.0	675.7
42.5°	633.3	634.7	633.3	631.8	637.5	636.1	641.7	636.1	634.7	634.7	644.6
45°	593.7	593.7	593.7	597.9	593.7	595.1	600.7	597.9	600.7	599.3	609.2
47.5°	561.2	554.1	552.7	561.2	559.8	561.2	561.2	562.6	564.0	561.2	565.4
50°	514.5	511.7	511.7	513.1	514.5	517.4	521.6	524.4	521.6	525.8	527.2
52.5°	469.3	466.5	467.9	473.5	476.4	474.9	482.0	483.4	482.0	484.8	484.8
55°	417.0	414.2	418.4	425.5	429.7	434.0	441.0	435.4	441.0	442.4	443.8
57.5°	363.3	361.9	363.3	370.3	374.6	384.5	395.8	395.8	401.4	397.2	401.4
60°	303.9	303.9	309.6	313.8	325.1	332.2	343.5	349.1	354.8	360.4	357.6
62.5°	247.4	248.8	253.0	262.9	270.0	279.9	292.6	298.3	308.1	313.8	311.0
65°	196.5	196.5	199.3	207.8	214.9	227.6	238.9	251.6	257.3	260.1	261.5
67.5°	147.0	145.6	151.2	156.9	164.0	176.7	189.4	196.5	206.4	209.2	207.8
70°	98.9	100.4	103.2	108.8	117.3	127.2	141.4	147.0	152.7	155.5	152.7
72.5°	62.2	62.2	63.6	69.3	74.9	82.0	91.9	97.5	104.6	106.0	103.2
75°	28.3	28.3	31.1	33.9	38.2	43.8	50.9	55.1	59.4	63.6	63.6
77.5°	5.7	7.1	8.5	8.5	11.3	15.5	19.8	24.0	28.3	28.3	28.3
80°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	7.1	7.1	7.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	958.4	966.9	958.4	954.1	959.8	958.4	954.1	955.5
5°	954.1	957.0	959.8	948.5	955.5	957.0	954.1	951.3
7.5°	949.9	951.3	949.9	947.1	947.1	947.1	949.9	949.9
10°	948.5	944.2	937.2	932.9	937.2	937.2	935.8	947.1
12.5°	930.1	935.8	931.5	923.0	931.5	930.1	930.1	932.9
15°	916.0	916.0	918.8	907.5	913.1	911.7	911.7	914.6
17.5°	901.8	901.8	900.4	897.6	896.2	900.4	896.2	903.2
20°	882.0	884.9	893.3	879.2	883.5	879.2	879.2	870.7
22.5°	858.0	872.1	865.1	863.7	862.3	863.7	866.5	856.6
25°	842.5	842.5	845.3	836.8	836.8	839.6	838.2	835.4
27.5°	821.3	819.8	818.4	815.6	822.7	817.0	817.0	817.0
30°	791.6	795.8	794.4	787.3	795.8	793.0	788.7	780.3
32.5°	766.1	771.8	763.3	761.9	760.5	761.9	763.3	756.2
35°	735.0	736.4	736.4	730.8	732.2	730.8	728.0	729.4
37.5°	706.8	705.4	698.3	695.5	696.9	696.9	698.3	695.5
40°	667.2	671.4	671.4	661.5	664.4	661.5	661.5	660.1
42.5°	634.7	636.1	631.8	627.6	627.6	626.2	623.4	626.2
45°	600.7	599.3	595.1	590.9	590.9	589.4	586.6	592.3
47.5°	562.6	559.8	558.3	552.7	552.7	544.2	545.6	551.3
50°	524.4	521.6	515.9	513.1	508.9	504.6	503.2	503.2
52.5°	479.2	479.2	473.5	467.9	466.5	463.6	460.8	462.2
55°	439.6	439.6	435.4	425.5	419.8	412.8	408.5	407.1
57.5°	394.4	391.5	383.1	371.8	366.1	360.4	356.2	356.2
60°	349.1	342.1	333.6	323.7	313.8	303.9	301.1	299.7
62.5°	299.7	292.6	277.1	265.7	258.7	253.0	247.4	251.6
65°	250.2	240.3	226.2	214.9	207.8	199.3	195.1	195.1
67.5°	197.9	188.0	173.9	162.6	155.5	149.8	144.2	144.2
70°	145.6	138.5	125.8	115.9	110.3	101.8	100.4	100.4
72.5°	98.9	90.5	80.6	73.5	67.8	62.2	59.4	58.0
75°	55.1	49.5	42.4	38.2	32.5	29.7	26.9	26.9
77.5°	22.6	18.4	14.1	11.3	8.5	7.1	5.7	7.1
80°	4.2	2.8	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	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)