

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: P209362

Luminaire Tested: **LDSQ6B40D010 EU6B30509035 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209362
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: LDSQ6B40D010 EU6B30509035 6LBSQ1LI
Description: PORTFOLIO LD6 SERIES 6" RECESSED FIXTURE WITH A SQUARE LOW
IRIDESCENT TRIM.
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM
WATTAGE D010TR-43.02 W DE010-42.54 W D5LT-42.539 W DMX-41.87 W DL2-41.57
W DL3-44.71 W DLE-39.33 W
Light Source: HIGH LUMEN LED 3500 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3569.4 lumens
Efficiency: N/A
Efficacy: 83.0 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

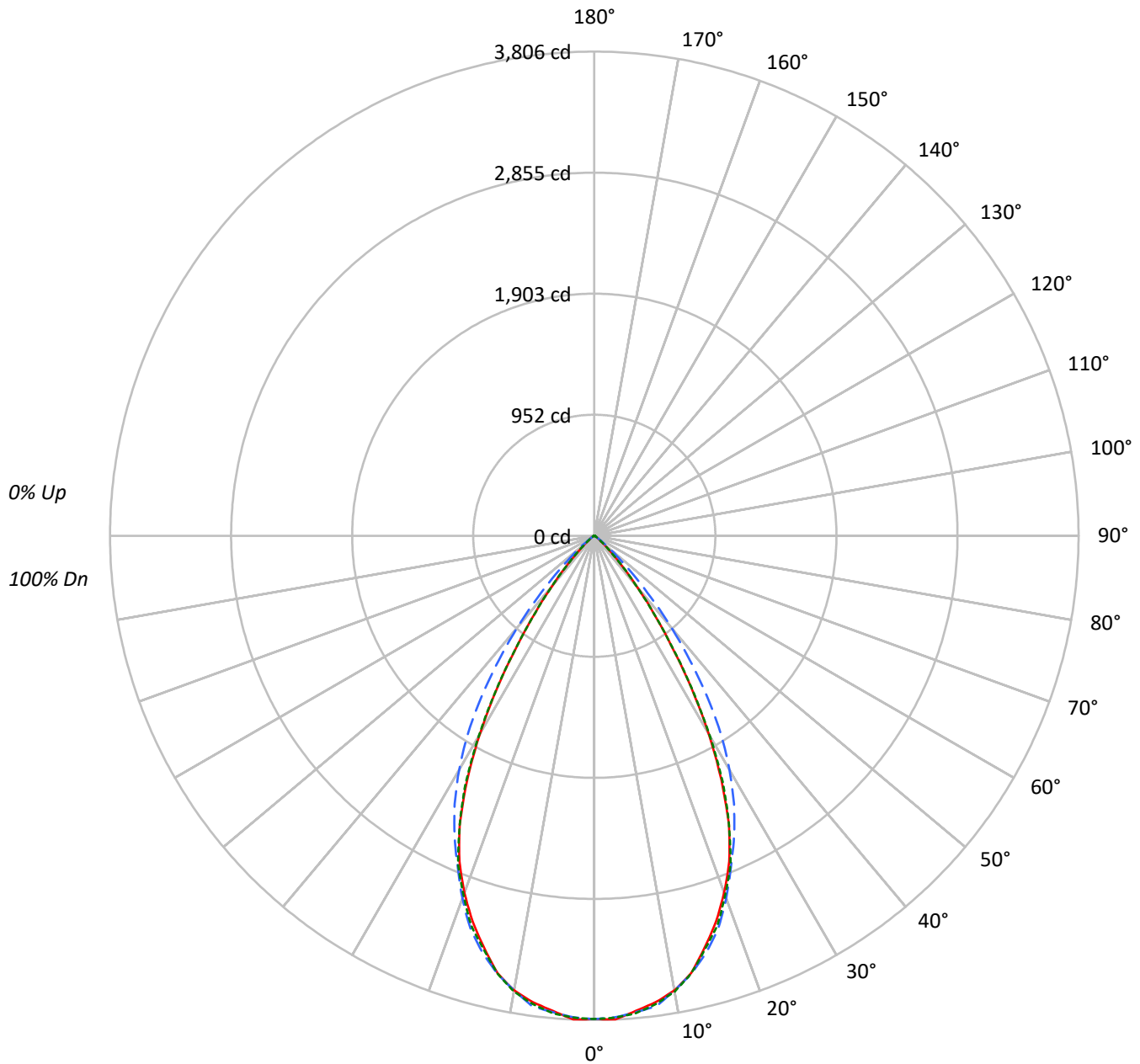
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	355.6	10.0
10°-20°	945.9	26.5
20°-30°	1160.9	32.5
30°-40°	801.4	22.5
40°-50°	250.6	7.0
50°-60°	39.1	1.1
60°-70°	11.3	0.3
70°-80°	3.7	0.1
80°-90°	0.8	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°	2462.4	69.0
0°-40°	3263.8	91.4
0°-60°	3553.5	99.6
0°-90°	3569.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3569.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3798	3798	3798	3798	3798	
5°	3748	3762	3758	3759	3767	354
15°	3351	3399	3394	3389	3363	937
25°	2501	2566	2599	2582	2504	1121
35°	1056	1248	1548	1260	1060	674
45°	199	272	436	269	203	178
55°	34	36	41	36	31	33
65°	10	12	10	12	10	11
75°	2	2	2	2	2	3
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°	3798.3	3798.3	3798.3	3798.3	3798.3	3798.3	3798.3	3798.3	3798.3	3798.3	3798.3
2.5°	3805.5	3752.8	3786.3	3779.2	3798.3	3810.3	3798.3	3819.8	3805.5	3788.7	3793.5
5°	3748.0	3755.2	3752.8	3757.6	3762.4	3762.4	3786.3	3788.7	3793.5	3757.6	3767.2
7.5°	3697.8	3697.8	3709.7	3705.0	3721.7	3716.9	3719.3	3738.5	3740.9	3731.3	3724.1
10°	3628.4	3618.8	3606.8	3606.8	3628.4	3630.8	3649.9	3652.3	3666.7	3628.4	3633.2
12.5°	3520.7	3515.9	3496.7	3506.3	3523.1	3513.5	3544.6	3547.0	3542.2	3525.5	3535.0
15°	3350.7	3369.9	3365.1	3362.7	3401.0	3396.2	3393.8	3401.0	3403.4	3393.8	3386.6
17.5°	3180.8	3197.6	3200.0	3204.7	3211.9	3219.1	3228.7	3255.0	3245.4	3238.3	3262.2
20°	2984.6	2977.4	2996.5	3015.7	3022.8	3022.8	3037.2	3056.4	3042.0	3032.4	3034.8
22.5°	2771.5	2783.5	2773.9	2793.1	2802.7	2814.6	2829.0	2845.7	2833.8	2807.4	2838.6
25°	2501.1	2508.3	2539.4	2537.0	2551.3	2580.1	2601.6	2601.6	2601.6	2599.2	2599.2
27.5°	2161.2	2156.4	2194.7	2221.1	2257.0	2302.4	2331.2	2376.6	2383.8	2376.6	2359.9
30°	1797.4	1792.6	1840.5	1874.0	1938.6	1960.2	2039.2	2082.2	2127.7	2125.3	2113.4
32.5°	1419.3	1428.9	1467.1	1515.0	1567.7	1634.7	1708.9	1804.6	1845.3	1854.9	1833.3
35°	1055.5	1069.8	1105.7	1146.4	1211.1	1285.2	1388.2	1479.1	1548.5	1548.5	1531.8
37.5°	761.1	765.9	799.4	825.7	892.7	959.7	1048.3	1172.8	1215.8	1232.6	1215.8
40°	519.4	519.4	538.5	567.2	622.3	679.7	761.1	854.4	916.7	943.0	914.3
42.5°	330.3	335.1	349.4	368.6	409.3	459.5	521.8	591.2	636.6	655.8	629.5
45°	198.7	203.4	215.4	229.8	256.1	287.2	330.3	380.5	418.8	435.6	423.6
47.5°	119.7	124.5	129.2	138.8	158.0	179.5	201.0	229.8	253.7	256.1	251.3
50°	69.4	69.4	74.2	81.4	90.9	102.9	114.9	131.6	138.8	148.4	138.8
52.5°	45.5	45.5	45.5	47.9	52.7	57.4	62.2	71.8	76.6	76.6	74.2
55°	33.5	33.5	33.5	33.5	35.9	35.9	35.9	38.3	40.7	40.7	40.7
57.5°	23.9	23.9	23.9	26.3	26.3	26.3	23.9	23.9	23.9	23.9	23.9
60°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	16.8	16.8	16.8
62.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
65°	9.6	9.6	9.6	12.0	12.0	12.0	12.0	9.6	9.6	9.6	9.6
67.5°	7.2	7.2	7.2	9.6	9.6	9.6	9.6	9.6	7.2	7.2	7.2
70°	4.8	4.8	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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°	3798.3	3798.3	3798.3	3798.3	3798.3	3798.3	3798.3	3798.3
2.5°	3807.9	3795.9	3795.9	3795.9	3791.1	3795.9	3803.1	3791.1
5°	3767.2	3772.0	3750.4	3767.2	3774.4	3762.4	3791.1	3767.2
7.5°	3731.3	3724.1	3690.6	3714.5	3728.9	3733.7	3731.3	3712.1
10°	3659.5	3642.7	3628.4	3628.4	3623.6	3621.2	3647.5	3637.9
12.5°	3530.2	3542.2	3520.7	3532.6	3523.1	3525.5	3527.9	3523.1
15°	3420.1	3408.2	3379.5	3398.6	3386.6	3374.7	3398.6	3362.7
17.5°	3247.8	3245.4	3228.7	3216.7	3221.5	3219.1	3231.1	3214.3
20°	3044.4	3049.2	3039.6	3034.8	3027.6	3010.9	3025.2	3006.1
22.5°	2824.2	2829.0	2838.6	2819.4	2821.8	2797.9	2819.4	2797.9
25°	2601.6	2599.2	2587.2	2577.7	2551.3	2525.0	2520.2	2503.5
27.5°	2357.5	2340.7	2312.0	2280.9	2240.2	2204.3	2201.9	2189.9
30°	2089.4	2053.5	2000.9	1950.6	1888.4	1833.3	1833.3	1814.2
32.5°	1807.0	1725.6	1653.8	1591.6	1510.2	1479.1	1448.0	1431.2
35°	1469.5	1397.7	1311.6	1208.7	1170.4	1093.8	1098.6	1060.3
37.5°	1151.2	1062.7	981.3	897.5	830.5	794.6	775.5	756.3
40°	854.4	768.3	679.7	624.7	564.8	533.7	521.8	517.0
42.5°	584.0	512.2	454.7	409.3	378.2	344.6	335.1	330.3
45°	380.5	339.9	287.2	251.3	229.8	210.6	210.6	203.4
47.5°	227.4	201.0	174.7	150.8	136.4	124.5	119.7	117.3
50°	126.8	112.5	98.1	88.6	79.0	71.8	69.4	69.4
52.5°	69.4	62.2	57.4	50.3	45.5	45.5	45.5	43.1
55°	35.9	35.9	35.9	35.9	33.5	33.5	33.5	31.1
57.5°	23.9	23.9	26.3	26.3	26.3	23.9	23.9	23.9
60°	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
62.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
65°	9.6	12.0	12.0	12.0	12.0	9.6	9.6	9.6
67.5°	7.2	9.6	9.6	9.6	7.2	7.2	7.2	7.2
70°	7.2	7.2	7.2	7.2	7.2	4.8	4.8	4.8
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4	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)