

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: P209411

Luminaire Tested: **LDSQ6B10D010 EU6B10209024 6LBCSSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209411
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: LDSQ6B10D010 EU6B10209024 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-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 2400 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 833.9 lumens
Efficiency: N/A
Efficacy: 83.0 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

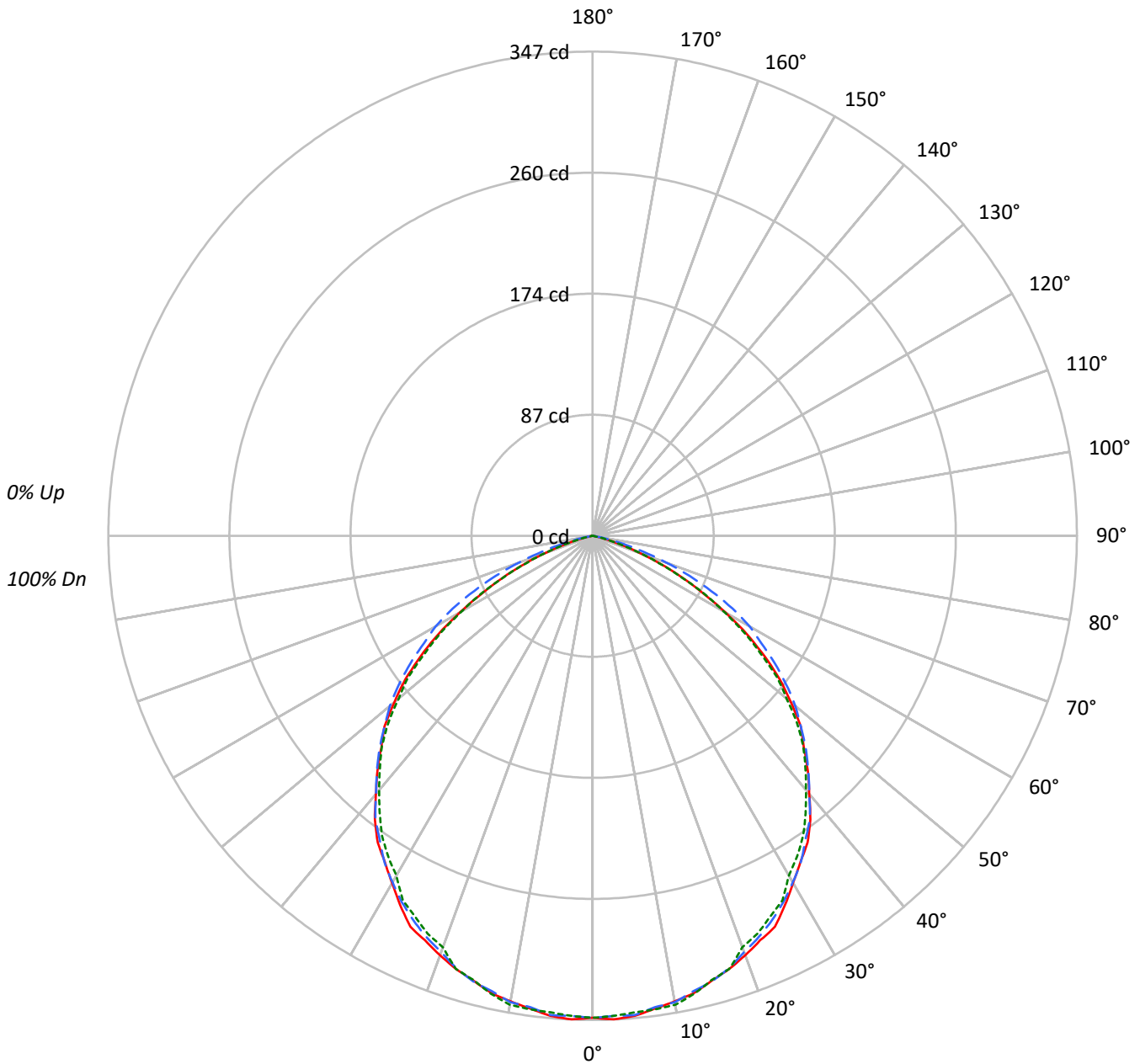
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	32.7	3.9
10°-20°	93.2	11.2
20°-30°	140.2	16.8
30°-40°	165.8	19.9
40°-50°	165.5	19.8
50°-60°	137.2	16.5
60°-70°	80.2	9.6
70°-80°	19.1	2.3
80°-90°	0.1	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°	266.0	31.9
0°-40°	431.8	51.8
0°-60°	734.5	88.1
0°-90°	833.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	833.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	345	345	345	345	345	
5°	345	344	345	344	343	33
15°	330	330	331	329	330	93
25°	309	306	304	303	301	141
35°	268	266	266	264	263	167
45°	214	214	216	214	214	166
55°	150	156	160	155	147	133
65°	71	80	94	79	70	70
75°	10	15	23	15	10	14
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°	345.4	345.4	345.4	345.4	345.4	345.4	345.4	345.4	345.4	345.4	345.4
2.5°	346.9	344.9	346.4	343.4	345.4	343.4	343.9	342.9	344.9	344.4	343.9
5°	345.4	345.9	344.9	345.9	344.4	342.9	344.4	343.4	340.3	344.9	343.9
7.5°	341.8	342.3	341.3	342.9	341.8	339.8	343.9	340.8	340.3	340.8	342.9
10°	338.8	339.8	339.3	338.8	339.3	339.3	338.3	336.7	338.3	339.3	338.8
12.5°	335.7	337.3	336.2	335.2	334.2	334.7	335.7	333.2	333.2	334.2	337.3
15°	330.1	331.1	331.6	329.6	329.6	330.1	332.2	328.1	330.1	330.6	331.1
17.5°	325.5	326.0	326.0	324.5	325.5	324.0	325.5	323.5	325.5	325.0	326.0
20°	319.9	320.9	319.9	319.9	318.9	319.4	319.4	319.4	317.9	317.4	318.4
22.5°	313.8	313.8	312.8	313.8	312.8	312.3	314.8	310.8	314.8	311.3	314.3
25°	309.2	306.7	305.2	304.6	306.7	304.6	305.7	304.1	305.2	304.1	304.6
27.5°	298.5	297.0	296.5	297.0	297.0	296.5	298.5	292.9	296.5	296.0	296.0
30°	287.3	287.3	288.3	287.3	288.3	286.8	288.9	284.3	287.3	286.8	287.3
32.5°	277.1	277.6	277.6	278.7	277.1	277.6	277.6	276.1	277.1	277.6	276.6
35°	268.5	265.9	265.9	265.9	265.9	265.9	266.9	265.4	266.9	265.9	265.9
37.5°	256.3	253.7	253.7	253.2	255.7	254.2	256.8	254.7	254.7	255.7	255.7
40°	241.5	242.5	241.0	243.0	242.5	240.5	245.0	242.0	244.0	241.5	243.5
42.5°	228.2	228.7	228.2	227.7	229.8	229.2	231.3	229.2	228.7	228.7	232.3
45°	214.0	214.0	214.0	215.5	214.0	214.5	216.5	215.5	216.5	216.0	219.6
47.5°	202.2	199.7	199.2	202.2	201.7	202.2	202.2	202.8	203.3	202.2	203.8
50°	185.4	184.4	184.4	184.9	185.4	186.5	188.0	189.0	188.0	189.5	190.0
52.5°	169.1	168.1	168.6	170.7	171.7	171.2	173.7	174.2	173.7	174.7	174.7
55°	150.3	149.3	150.8	153.3	154.9	156.4	158.9	156.9	158.9	159.5	160.0
57.5°	130.9	130.4	130.9	133.5	135.0	138.6	142.6	142.6	144.7	143.2	144.7
60°	109.5	109.5	111.6	113.1	117.2	119.7	123.8	125.8	127.9	129.9	128.9
62.5°	89.2	89.7	91.2	94.8	97.3	100.9	105.5	107.5	111.1	113.1	112.1
65°	70.8	70.8	71.8	74.9	77.4	82.0	86.1	90.7	92.7	93.7	94.2
67.5°	53.0	52.5	54.5	56.5	59.1	63.7	68.3	70.8	74.4	75.4	74.9
70°	35.7	36.2	37.2	39.2	42.3	45.8	50.9	53.0	55.0	56.0	55.0
72.5°	22.4	22.4	22.9	25.0	27.0	29.5	33.1	35.2	37.7	38.2	37.2
75°	10.2	10.2	11.2	12.2	13.8	15.8	18.3	19.9	21.4	22.9	22.9
77.5°	2.0	2.5	3.1	3.1	4.1	5.6	7.1	8.7	10.2	10.2	10.2
80°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5	2.5	2.5	2.5
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°	345.4	345.4	345.4	345.4	345.4	345.4	345.4	345.4
2.5°	345.4	348.5	345.4	343.9	345.9	345.4	343.9	344.4
5°	343.9	344.9	345.9	341.8	344.4	344.9	343.9	342.9
7.5°	342.3	342.9	342.3	341.3	341.3	341.3	342.3	342.3
10°	341.8	340.3	337.8	336.2	337.8	337.8	337.3	341.3
12.5°	335.2	337.3	335.7	332.7	335.7	335.2	335.2	336.2
15°	330.1	330.1	331.1	327.1	329.1	328.6	328.6	329.6
17.5°	325.0	325.0	324.5	323.5	323.0	324.5	323.0	325.5
20°	317.9	318.9	322.0	316.9	318.4	316.9	316.9	313.8
22.5°	309.2	314.3	311.8	311.3	310.8	311.3	312.3	308.7
25°	303.6	303.6	304.6	301.6	301.6	302.6	302.1	301.1
27.5°	296.0	295.5	295.0	293.9	296.5	294.5	294.5	294.5
30°	285.3	286.8	286.3	283.8	286.8	285.8	284.3	281.2
32.5°	276.1	278.2	275.1	274.6	274.1	274.6	275.1	272.6
35°	264.9	265.4	265.4	263.4	263.9	263.4	262.4	262.9
37.5°	254.7	254.2	251.7	250.6	251.2	251.2	251.7	250.6
40°	240.5	242.0	242.0	238.4	239.4	238.4	238.4	237.9
42.5°	228.7	229.2	227.7	226.2	226.2	225.7	224.7	225.7
45°	216.5	216.0	214.5	212.9	212.9	212.4	211.4	213.5
47.5°	202.8	201.7	201.2	199.2	199.2	196.1	196.6	198.7
50°	189.0	188.0	185.9	184.9	183.4	181.9	181.4	181.4
52.5°	172.7	172.7	170.7	168.6	168.1	167.1	166.1	166.6
55°	158.4	158.4	156.9	153.3	151.3	148.8	147.2	146.7
57.5°	142.1	141.1	138.1	134.0	131.9	129.9	128.4	128.4
60°	125.8	123.3	120.2	116.7	113.1	109.5	108.5	108.0
62.5°	108.0	105.5	99.9	95.8	93.2	91.2	89.2	90.7
65°	90.2	86.6	81.5	77.4	74.9	71.8	70.3	70.3
67.5°	71.3	67.8	62.7	58.6	56.0	54.0	52.0	52.0
70°	52.5	49.9	45.3	41.8	39.7	36.7	36.2	36.2
72.5°	35.7	32.6	29.0	26.5	24.5	22.4	21.4	20.9
75°	19.9	17.8	15.3	13.8	11.7	10.7	9.7	9.7
77.5°	8.2	6.6	5.1	4.1	3.1	2.5	2.0	2.5
80°	1.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5
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



Report Generated By E9808895 / USPTCWHP6082093





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









(END OF REPORT)