

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: P209383

Luminaire Tested: **LDSQ6B60D010 EU6B60708040 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209383
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: LDSQ6B60D010 EU6B60708040 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 4000 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6162.2 lumens
Efficiency: N/A
Efficacy: 98.6 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

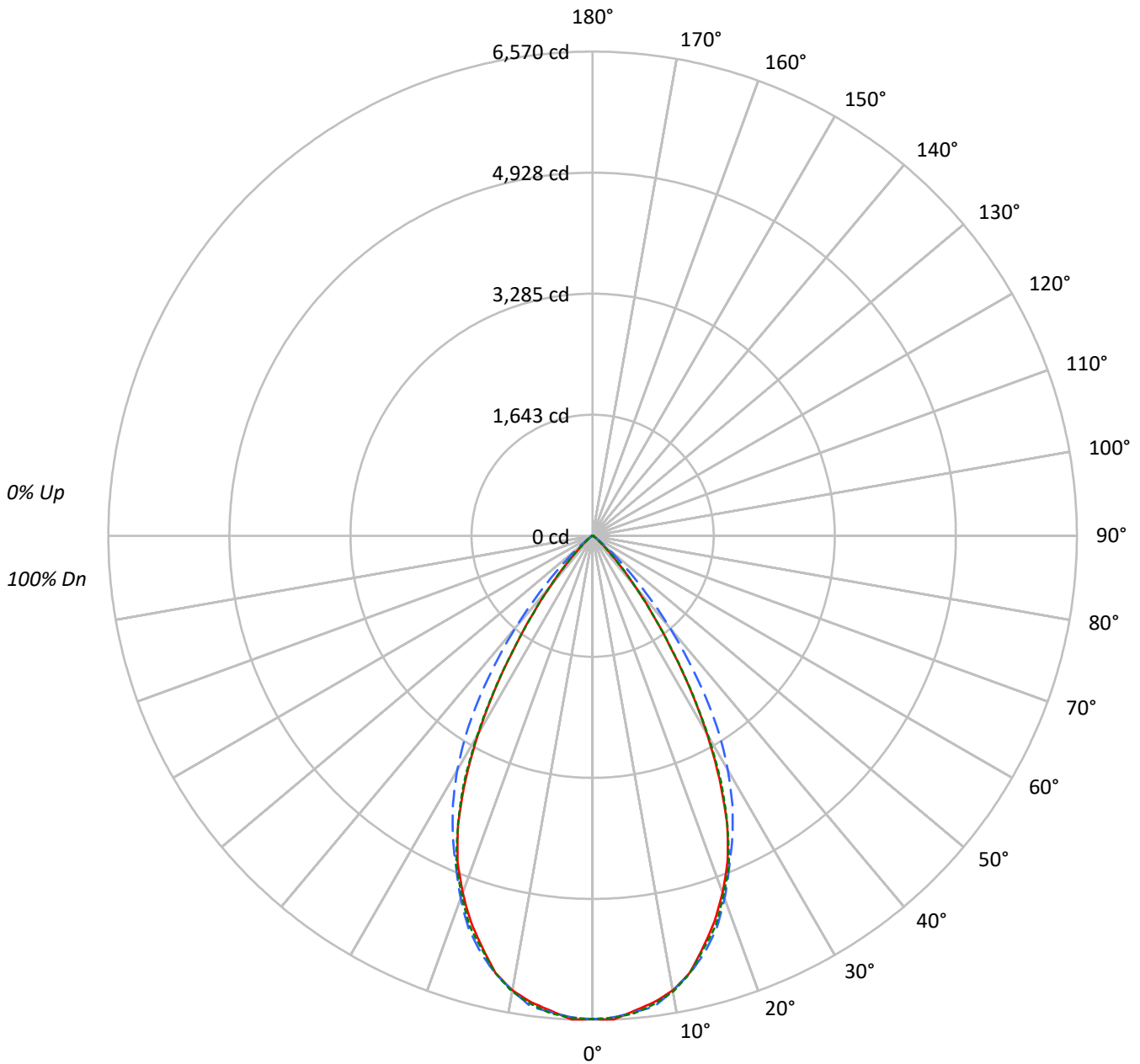
Input Watts (W): 62.48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	613.9	10.0
10°-20°	1633.1	26.5
20°-30°	2004.2	32.5
30°-40°	1383.6	22.5
40°-50°	432.6	7.0
50°-60°	67.6	1.1
60°-70°	19.6	0.3
70°-80°	6.4	0.1
80°-90°	1.4	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°	4251.2	69.0
0°-40°	5634.7	91.4
0°-60°	6134.9	99.6
0°-90°	6162.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6162.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6558	6558	6558	6558	6558	
5°	6471	6496	6487	6489	6504	612
15°	5785	5867	5859	5851	5806	1618
25°	4318	4430	4487	4458	4322	1935
35°	1822	2155	2673	2176	1830	1164
45°	343	469	752	465	351	307
55°	58	62	70	62	54	56
65°	16	21	16	21	16	18
75°	4	4	4	4	4	6
85°	0	0	0	0	0	1
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°	6557.5	6557.5	6557.5	6557.5	6557.5	6557.5	6557.5	6557.5	6557.5	6557.5	6557.5
2.5°	6569.9	6479.0	6536.8	6524.4	6557.5	6578.1	6557.5	6594.7	6569.9	6541.0	6549.2
5°	6470.7	6483.1	6479.0	6487.2	6495.5	6495.5	6536.8	6541.0	6549.2	6487.2	6503.8
7.5°	6383.9	6383.9	6404.6	6396.3	6425.3	6417.0	6421.1	6454.2	6458.3	6441.8	6429.4
10°	6264.1	6247.6	6226.9	6226.9	6264.1	6268.2	6301.3	6305.4	6330.2	6264.1	6272.4
12.5°	6078.2	6069.9	6036.8	6053.4	6082.3	6065.8	6119.5	6123.6	6115.4	6086.4	6103.0
15°	5784.8	5817.9	5809.6	5805.5	5871.6	5863.3	5859.2	5871.6	5875.7	5859.2	5846.8
17.5°	5491.4	5520.3	5524.5	5532.7	5545.1	5557.5	5574.1	5619.5	5603.0	5590.6	5631.9
20°	5152.6	5140.2	5173.3	5206.3	5218.7	5218.7	5243.5	5276.6	5251.8	5235.2	5239.4
22.5°	4784.9	4805.5	4789.0	4822.0	4838.6	4859.2	4884.0	4912.9	4892.3	4846.8	4900.5
25°	4317.9	4330.3	4384.0	4379.9	4404.7	4454.3	4491.5	4491.5	4491.5	4487.3	4487.3
27.5°	3731.2	3722.9	3789.0	3834.5	3896.5	3975.0	4024.6	4103.1	4115.5	4103.1	4074.1
30°	3103.1	3094.9	3177.5	3235.4	3346.9	3384.1	3520.5	3594.8	3673.3	3669.2	3648.6
32.5°	2450.3	2466.8	2532.9	2615.6	2706.5	2822.2	2950.2	3115.5	3185.8	3202.3	3165.1
35°	1822.2	1847.0	1909.0	1979.2	2090.8	2218.9	2396.6	2553.6	2673.4	2673.4	2644.5
37.5°	1314.0	1322.2	1380.1	1425.5	1541.2	1656.9	1809.8	2024.7	2099.1	2128.0	2099.1
40°	896.6	896.6	929.7	979.3	1074.3	1173.5	1314.0	1475.1	1582.6	1628.0	1578.4
42.5°	570.2	578.5	603.3	636.3	706.6	793.3	900.8	1020.6	1099.1	1132.2	1086.7
45°	343.0	351.2	371.9	396.7	442.1	495.8	570.2	657.0	723.1	752.0	731.4
47.5°	206.6	214.9	223.1	239.7	272.7	309.9	347.1	396.7	438.0	442.1	433.9
50°	119.8	119.8	128.1	140.5	157.0	177.7	198.3	227.3	239.7	256.2	239.7
52.5°	78.5	78.5	78.5	82.6	90.9	99.2	107.4	124.0	132.2	132.2	128.1
55°	57.8	57.8	57.8	57.8	62.0	62.0	62.0	66.1	70.2	70.2	70.2
57.5°	41.3	41.3	41.3	45.5	45.5	45.5	41.3	41.3	41.3	41.3	41.3
60°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	28.9	28.9	28.9
62.5°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
65°	16.5	16.5	16.5	20.7	20.7	20.7	20.7	16.5	16.5	16.5	16.5
67.5°	12.4	12.4	12.4	16.5	16.5	16.5	16.5	16.5	12.4	12.4	12.4
70°	8.3	8.3	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
72.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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°	6557.5	6557.5	6557.5	6557.5	6557.5	6557.5	6557.5	6557.5
2.5°	6574.0	6553.3	6553.3	6553.3	6545.1	6553.3	6565.7	6545.1
5°	6503.8	6512.0	6474.8	6503.8	6516.2	6495.5	6545.1	6503.8
7.5°	6441.8	6429.4	6371.5	6412.9	6437.7	6445.9	6441.8	6408.7
10°	6317.8	6288.9	6264.1	6264.1	6255.8	6251.7	6297.2	6280.6
12.5°	6094.7	6115.4	6078.2	6098.8	6082.3	6086.4	6090.6	6082.3
15°	5904.6	5884.0	5834.4	5867.4	5846.8	5826.1	5867.4	5805.5
17.5°	5607.1	5603.0	5574.1	5553.4	5561.7	5557.5	5578.2	5549.3
20°	5255.9	5264.2	5247.6	5239.4	5227.0	5198.1	5222.8	5189.8
22.5°	4875.8	4884.0	4900.5	4867.5	4871.6	4830.3	4867.5	4830.3
25°	4491.5	4487.3	4466.7	4450.2	4404.7	4359.3	4351.0	4322.1
27.5°	4070.0	4041.1	3991.5	3937.8	3867.5	3805.6	3801.4	3780.8
30°	3607.2	3545.3	3454.3	3367.6	3260.1	3165.1	3165.1	3132.1
32.5°	3119.7	2979.2	2855.2	2747.8	2607.3	2553.6	2499.9	2470.9
35°	2537.0	2413.1	2264.3	2086.7	2020.5	1888.3	1896.6	1830.5
37.5°	1987.5	1834.6	1694.1	1549.5	1433.8	1371.8	1338.8	1305.7
40°	1475.1	1326.4	1173.5	1078.5	975.2	921.4	900.8	892.5
42.5°	1008.2	884.2	785.1	706.6	652.9	595.0	578.5	570.2
45°	657.0	586.7	495.8	433.9	396.7	363.6	363.6	351.2
47.5°	392.5	347.1	301.6	260.3	235.5	214.9	206.6	202.5
50°	219.0	194.2	169.4	152.9	136.4	124.0	119.8	119.8
52.5°	119.8	107.4	99.2	86.8	78.5	78.5	78.5	74.4
55°	62.0	62.0	62.0	62.0	57.8	57.8	57.8	53.7
57.5°	41.3	41.3	45.5	45.5	45.5	41.3	41.3	41.3
60°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
62.5°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
65°	16.5	20.7	20.7	20.7	20.7	16.5	16.5	16.5
67.5°	12.4	16.5	16.5	16.5	12.4	12.4	12.4	12.4
70°	12.4	12.4	12.4	12.4	12.4	8.3	8.3	8.3
72.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	4.1	4.1	4.1	4.1	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)