

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: P209395

Luminaire Tested: **LDSQ6B70D010 EU6B60708035 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209395
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: LDSQ6B70D010 EU6B60708035 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 3500 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7237.4 lumens
Efficiency: N/A
Efficacy: 91.1 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

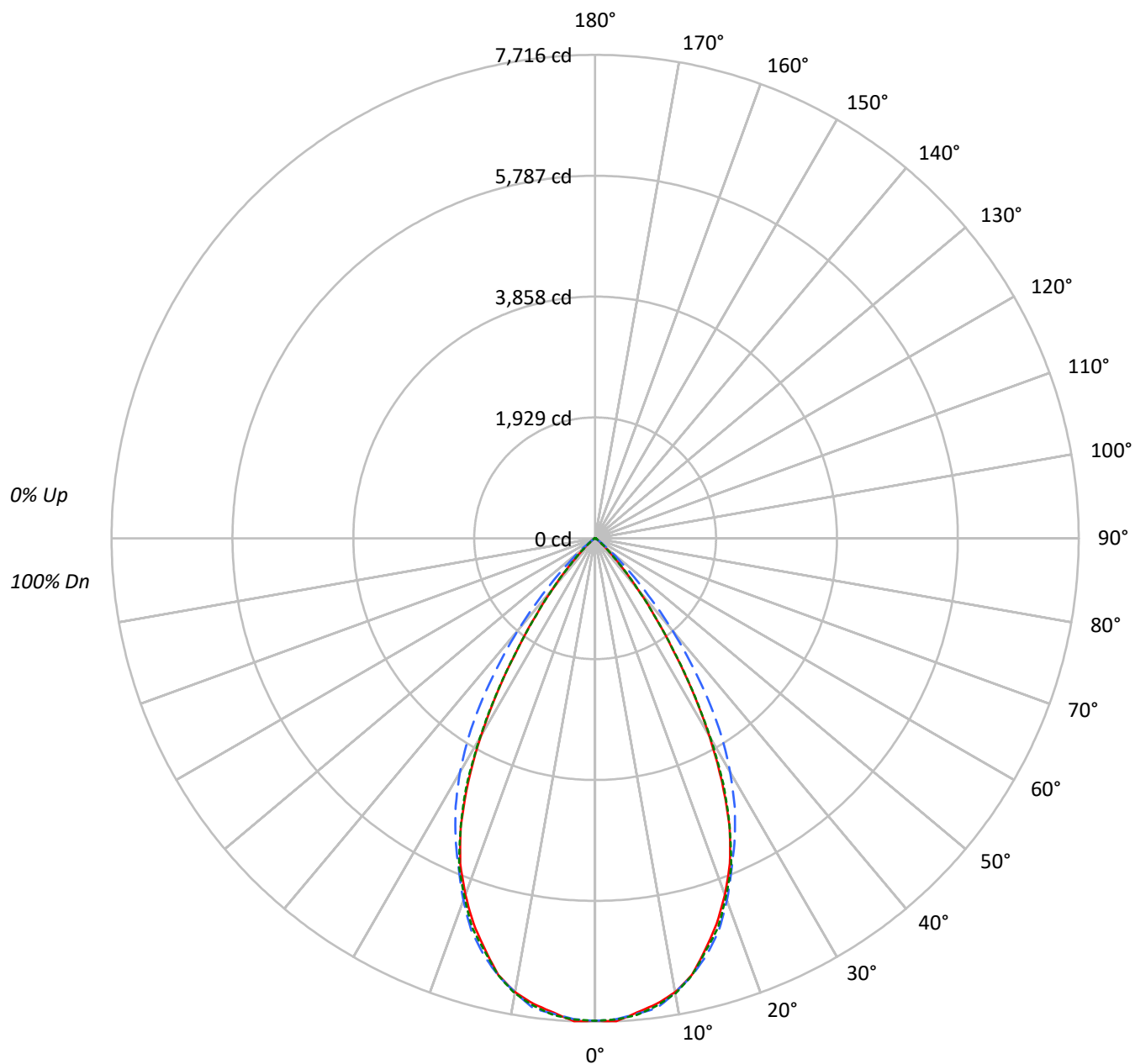
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	81	78		84	80	77		82
5	92	83	78	73	90	82	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	67	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	64	59	55	64	58	55		63	58	54		62
10	71	61	55	52	70	61	55	51	60	55	51		59	55	51		59

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°	721.0	10.0
10°-20°	1918.0	26.5
20°-30°	2353.9	32.5
30°-40°	1624.9	22.5
40°-50°	508.0	7.0
50°-60°	79.3	1.1
60°-70°	23.0	0.3
70°-80°	7.6	0.1
80°-90°	1.7	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°	4992.8	69.0
0°-40°	6617.8	91.4
0°-60°	7205.2	99.6
0°-90°	7237.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7237.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7702	7702	7702	7702	7702	
5°	7600	7629	7619	7621	7638	718
15°	6794	6891	6881	6872	6818	1900
25°	5071	5202	5270	5236	5076	2272
35°	2140	2531	3140	2555	2150	1367
45°	403	551	883	546	412	361
55°	68	73	82	73	63	66
65°	19	24	19	24	19	21
75°	5	5	5	5	5	7
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°	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5
2.5°	7716.0	7609.3	7677.2	7662.7	7701.5	7725.8	7701.5	7745.2	7716.0	7682.1	7691.8
5°	7599.6	7614.1	7609.3	7619.0	7628.7	7628.7	7677.2	7682.1	7691.8	7619.0	7638.4
7.5°	7497.7	7497.7	7521.9	7512.2	7546.2	7536.5	7541.3	7580.2	7585.0	7565.6	7551.1
10°	7356.9	7337.5	7313.3	7313.3	7356.9	7361.8	7400.6	7405.5	7434.6	7356.9	7366.6
12.5°	7138.6	7128.9	7090.0	7109.4	7143.4	7124.0	7187.1	7191.9	7182.2	7148.3	7167.7
15°	6794.0	6832.8	6823.1	6818.3	6895.9	6886.2	6881.4	6895.9	6900.8	6881.4	6866.8
17.5°	6449.5	6483.4	6488.3	6498.0	6512.5	6527.1	6546.5	6599.9	6580.5	6565.9	6614.4
20°	6051.5	6037.0	6075.8	6114.6	6129.2	6129.2	6158.3	6197.1	6168.0	6148.6	6153.4
22.5°	5619.6	5643.9	5624.5	5663.3	5682.7	5707.0	5736.1	5770.1	5745.8	5692.4	5755.5
25°	5071.2	5085.8	5148.9	5144.0	5173.1	5231.4	5275.1	5275.1	5275.1	5270.2	5270.2
27.5°	4382.1	4372.4	4450.1	4503.5	4576.2	4668.5	4726.7	4818.9	4833.4	4818.9	4784.9
30°	3644.5	3634.8	3731.9	3799.8	3930.8	3974.5	4134.6	4222.0	4314.2	4309.3	4285.1
32.5°	2877.7	2897.2	2974.8	3071.9	3178.6	3314.5	3464.9	3659.1	3741.6	3761.0	3717.3
35°	2140.1	2169.2	2242.0	2324.5	2455.5	2606.0	2814.7	2999.1	3139.8	3139.8	3105.8
37.5°	1543.2	1552.9	1620.9	1674.2	1810.1	1946.0	2125.6	2377.9	2465.3	2499.2	2465.3
40°	1053.1	1053.1	1091.9	1150.1	1261.7	1378.2	1543.2	1732.5	1858.6	1912.0	1853.8
42.5°	669.7	679.4	708.5	747.3	829.8	931.7	1057.9	1198.7	1290.9	1329.7	1276.3
45°	402.8	412.5	436.8	465.9	519.3	582.3	669.7	771.6	849.3	883.2	859.0
47.5°	242.6	252.3	262.1	281.5	320.3	364.0	407.6	465.9	514.4	519.3	509.6
50°	140.7	140.7	150.4	165.0	184.4	208.7	232.9	266.9	281.5	300.9	281.5
52.5°	92.2	92.2	92.2	97.1	106.8	116.5	126.2	145.6	155.3	155.3	150.4
55°	67.9	67.9	67.9	67.9	72.8	72.8	72.8	77.6	82.5	82.5	82.5
57.5°	48.5	48.5	48.5	53.4	53.4	53.4	48.5	48.5	48.5	48.5	48.5
60°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	34.0	34.0	34.0
62.5°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
65°	19.4	19.4	19.4	24.3	24.3	24.3	24.3	19.4	19.4	19.4	19.4
67.5°	14.6	14.6	14.6	19.4	19.4	19.4	19.4	19.4	14.6	14.6	14.6
70°	9.7	9.7	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
72.5°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	0.0	0.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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°	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5	7701.5
2.5°	7720.9	7696.6	7696.6	7696.6	7686.9	7696.6	7711.2	7686.9
5°	7638.4	7648.1	7604.4	7638.4	7653.0	7628.7	7686.9	7638.4
7.5°	7565.6	7551.1	7483.1	7531.6	7560.8	7570.5	7565.6	7526.8
10°	7420.0	7386.1	7356.9	7356.9	7347.2	7342.4	7395.8	7376.3
12.5°	7158.0	7182.2	7138.6	7162.8	7143.4	7148.3	7153.1	7143.4
15°	6934.7	6910.5	6852.2	6891.1	6866.8	6842.5	6891.1	6818.3
17.5°	6585.3	6580.5	6546.5	6522.2	6532.0	6527.1	6551.4	6517.4
20°	6172.8	6182.5	6163.1	6153.4	6138.9	6104.9	6134.0	6095.2
22.5°	5726.4	5736.1	5755.5	5716.7	5721.5	5673.0	5716.7	5673.0
25°	5275.1	5270.2	5245.9	5226.5	5173.1	5119.8	5110.1	5076.1
27.5°	4780.1	4746.1	4687.9	4624.8	4542.3	4469.5	4464.6	4440.4
30°	4236.5	4163.8	4057.0	3955.1	3828.9	3717.3	3717.3	3678.5
32.5°	3663.9	3498.9	3353.3	3227.2	3062.2	2999.1	2936.0	2902.0
35°	2979.7	2834.1	2659.4	2450.7	2373.0	2217.8	2227.5	2149.8
37.5°	2334.2	2154.7	1989.7	1819.8	1683.9	1611.1	1572.3	1533.5
40°	1732.5	1557.8	1378.2	1266.6	1145.3	1082.2	1057.9	1048.2
42.5°	1184.1	1038.5	922.0	829.8	766.8	698.8	679.4	669.7
45°	771.6	689.1	582.3	509.6	465.9	427.1	427.1	412.5
47.5°	461.0	407.6	354.3	305.7	276.6	252.3	242.6	237.8
50°	257.2	228.1	199.0	179.6	160.1	145.6	140.7	140.7
52.5°	140.7	126.2	116.5	101.9	92.2	92.2	92.2	87.4
55°	72.8	72.8	72.8	72.8	67.9	67.9	67.9	63.1
57.5°	48.5	48.5	53.4	53.4	53.4	48.5	48.5	48.5
60°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
62.5°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
65°	19.4	24.3	24.3	24.3	24.3	19.4	19.4	19.4
67.5°	14.6	19.4	19.4	19.4	14.6	14.6	14.6	14.6
70°	14.6	14.6	14.6	14.6	14.6	9.7	9.7	9.7
72.5°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	4.9	4.9	4.9	4.9	4.9	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)