

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: P209401

Luminaire Tested: **LDSQ6B70D010 EU6B60709035 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209401
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 EU6B60709035 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: 6112.8 lumens
Efficiency: N/A
Efficacy: 76.9 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

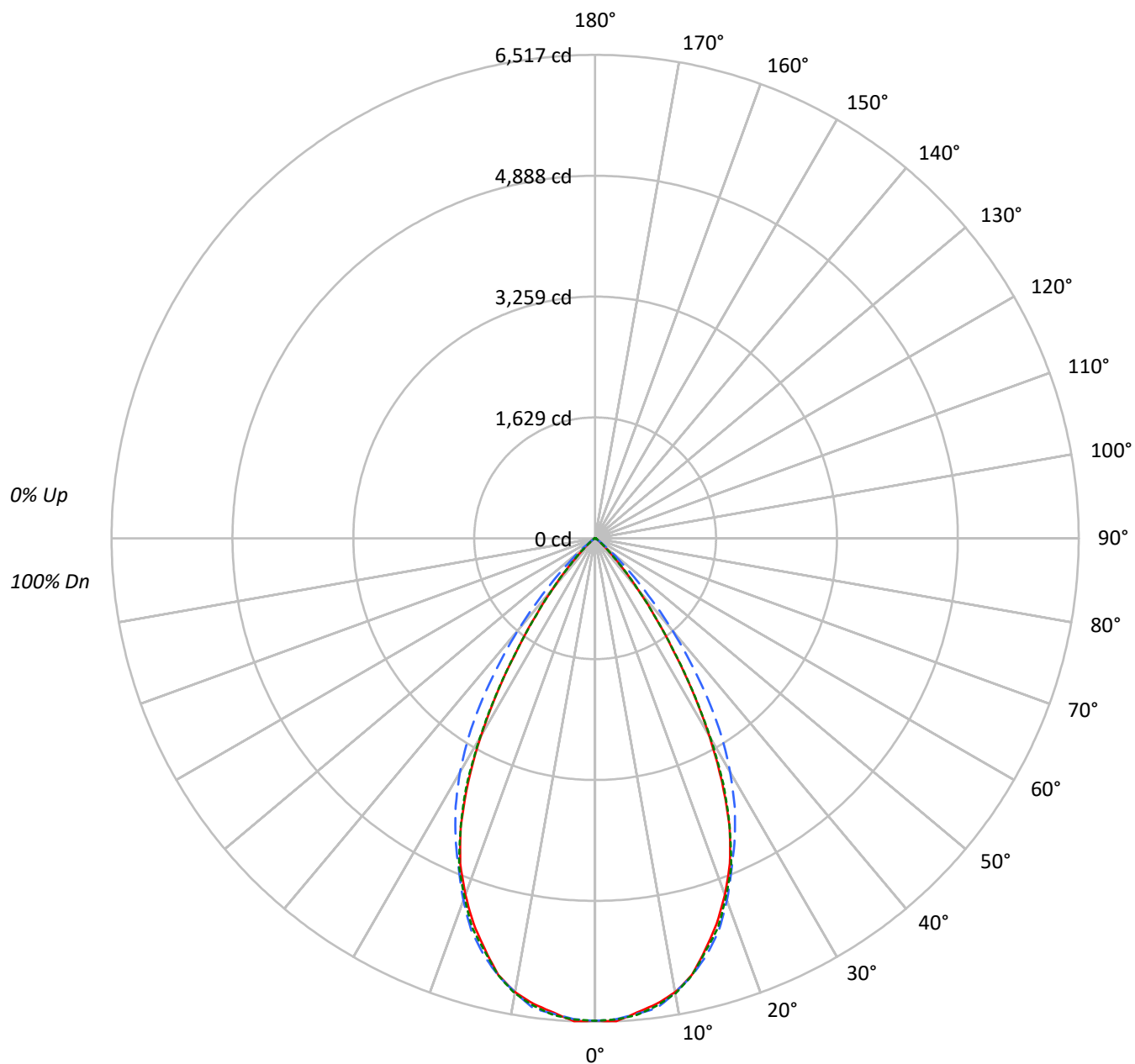
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10		70	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			100
1	113	111	108	106		111	108	106	104		104	103	101			101	99	98			93
2	108	103	99	95		106	101	97	94		98	95	92			95	92	90			87
3	102	96	91	87		100	94	90	86		92	88	85			89	86	83			80
4	97	89	84	79		95	88	83	79		86	81	78			84	80	77			75
5	92	83	78	73		90	82	77	73		81	76	72			79	75	72			69
6	87	78	72	68		86	77	72	67		76	71	67			74	70	67			65
7	83	73	67	63		81	73	67	63		71	66	62			70	66	62			60
8	79	69	63	59		77	68	63	59		67	62	58			66	62	58			56
9	75	65	59	55		74	64	59	55		64	58	55			63	58	54			53
10	71	61	55	52		70	61	55	51		60	55	51			59	55	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°	609.0	10.0
10°-20°	1619.9	26.5
20°-30°	1988.1	32.5
30°-40°	1372.4	22.5
40°-50°	429.1	7.0
50°-60°	67.0	1.1
60°-70°	19.4	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°	4217.0	69.0
0°-40°	5589.5	91.4
0°-60°	6085.6	99.6
0°-90°	6112.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6112.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6505	6505	6505	6505	6505	
5°	6419	6443	6435	6437	6452	607
15°	5738	5820	5812	5804	5759	1605
25°	4283	4394	4451	4423	4287	1919
35°	1808	2138	2652	2158	1816	1155
45°	340	465	746	461	348	305
55°	57	62	70	62	53	56
65°	16	20	16	20	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°	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8
2.5°	6517.1	6426.9	6484.3	6472.0	6504.8	6525.3	6504.8	6541.7	6517.1	6488.4	6496.6
5°	6418.7	6431.0	6426.9	6435.1	6443.3	6443.3	6484.3	6488.4	6496.6	6435.1	6451.5
7.5°	6332.6	6332.6	6353.1	6344.9	6373.6	6365.4	6369.5	6402.3	6406.4	6390.0	6377.7
10°	6213.8	6197.4	6176.9	6176.9	6213.8	6217.9	6250.7	6254.8	6279.3	6213.8	6222.0
12.5°	6029.3	6021.1	5988.3	6004.7	6033.4	6017.0	6070.3	6074.4	6066.2	6037.5	6053.9
15°	5738.3	5771.1	5762.9	5758.8	5824.4	5816.2	5812.1	5824.4	5828.5	5812.1	5799.8
17.5°	5447.3	5476.0	5480.1	5488.3	5500.6	5512.9	5529.3	5574.4	5558.0	5545.7	5586.6
20°	5111.2	5098.9	5131.7	5164.5	5176.8	5176.8	5201.4	5234.2	5209.6	5193.2	5197.3
22.5°	4746.4	4766.9	4750.5	4783.3	4799.7	4820.2	4844.8	4873.5	4853.0	4807.9	4861.2
25°	4283.2	4295.5	4348.8	4344.7	4369.3	4418.5	4455.4	4455.4	4455.4	4451.3	4451.3
27.5°	3701.2	3693.0	3758.6	3803.7	3865.2	3943.0	3992.2	4070.1	4082.4	4070.1	4041.4
30°	3078.2	3070.0	3152.0	3209.4	3320.0	3356.9	3492.2	3565.9	3643.8	3639.7	3619.2
32.5°	2430.6	2447.0	2512.6	2594.5	2684.7	2799.5	2926.5	3090.5	3160.2	3176.6	3139.7
35°	1807.6	1832.2	1893.6	1963.3	2074.0	2201.0	2377.3	2533.1	2651.9	2651.9	2623.2
37.5°	1303.4	1311.6	1369.0	1414.1	1528.8	1643.6	1795.3	2008.4	2082.2	2110.9	2082.2
40°	889.4	889.4	922.2	971.4	1065.7	1164.1	1303.4	1463.3	1569.8	1614.9	1565.7
42.5°	565.6	573.8	598.4	631.2	700.9	787.0	893.5	1012.4	1090.3	1123.1	1078.0
45°	340.2	348.4	368.9	393.5	438.6	491.9	565.6	651.7	717.3	746.0	725.5
47.5°	204.9	213.1	221.3	237.7	270.5	307.4	344.3	393.5	434.5	438.6	430.4
50°	118.9	118.9	127.1	139.4	155.8	176.2	196.7	225.4	237.7	254.1	237.7
52.5°	77.9	77.9	77.9	82.0	90.2	98.4	106.6	123.0	131.2	131.2	127.1
55°	57.4	57.4	57.4	57.4	61.5	61.5	61.5	65.6	69.7	69.7	69.7
57.5°	41.0	41.0	41.0	45.1	45.1	45.1	41.0	41.0	41.0	41.0	41.0
60°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	28.7	28.7	28.7
62.5°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
65°	16.4	16.4	16.4	20.5	20.5	20.5	20.5	16.4	16.4	16.4	16.4
67.5°	12.3	12.3	12.3	16.4	16.4	16.4	16.4	16.4	12.3	12.3	12.3
70°	8.2	8.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
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°	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8	6504.8
2.5°	6521.2	6500.7	6500.7	6500.7	6492.5	6500.7	6513.0	6492.5
5°	6451.5	6459.7	6422.8	6451.5	6463.8	6443.3	6492.5	6451.5
7.5°	6390.0	6377.7	6320.3	6361.3	6385.9	6394.1	6390.0	6357.2
10°	6267.0	6238.4	6213.8	6213.8	6205.6	6201.5	6246.6	6230.2
12.5°	6045.7	6066.2	6029.3	6049.8	6033.4	6037.5	6041.6	6033.4
15°	5857.2	5836.7	5787.5	5820.3	5799.8	5779.3	5820.3	5758.8
17.5°	5562.1	5558.0	5529.3	5508.8	5517.0	5512.9	5533.4	5504.7
20°	5213.7	5221.9	5205.5	5197.3	5185.0	5156.3	5180.9	5148.1
22.5°	4836.6	4844.8	4861.2	4828.4	4832.5	4791.5	4828.4	4791.5
25°	4455.4	4451.3	4430.8	4414.4	4369.3	4324.2	4316.0	4287.3
27.5°	4037.3	4008.6	3959.4	3906.1	3836.5	3775.0	3770.9	3750.4
30°	3578.2	3516.8	3426.6	3340.5	3233.9	3139.7	3139.7	3106.9
32.5°	3094.6	2955.2	2832.3	2725.7	2586.3	2533.1	2479.8	2451.1
35°	2516.7	2393.7	2246.1	2069.9	2004.3	1873.1	1881.3	1815.8
37.5°	1971.5	1819.9	1680.5	1537.0	1422.3	1360.8	1328.0	1295.2
40°	1463.3	1315.7	1164.1	1069.8	967.3	914.0	893.5	885.3
42.5°	1000.1	877.1	778.8	700.9	647.6	590.2	573.8	565.6
45°	651.7	582.0	491.9	430.4	393.5	360.7	360.7	348.4
47.5°	389.4	344.3	299.2	258.2	233.6	213.1	204.9	200.8
50°	217.2	192.6	168.1	151.7	135.3	123.0	118.9	118.9
52.5°	118.9	106.6	98.4	86.1	77.9	77.9	77.9	73.8
55°	61.5	61.5	61.5	61.5	57.4	57.4	57.4	53.3
57.5°	41.0	41.0	45.1	45.1	45.1	41.0	41.0	41.0
60°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
62.5°	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
65°	16.4	20.5	20.5	20.5	20.5	16.4	16.4	16.4
67.5°	12.3	16.4	16.4	16.4	12.3	12.3	12.3	12.3
70°	12.3	12.3	12.3	12.3	12.3	8.2	8.2	8.2
72.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
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)