

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: P209399

Luminaire Tested: **LDSQ6B70D010 EU6B60709027 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209399
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 EU6B60709027 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 2700 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5796.1 lumens
Efficiency: N/A
Efficacy: 73.0 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

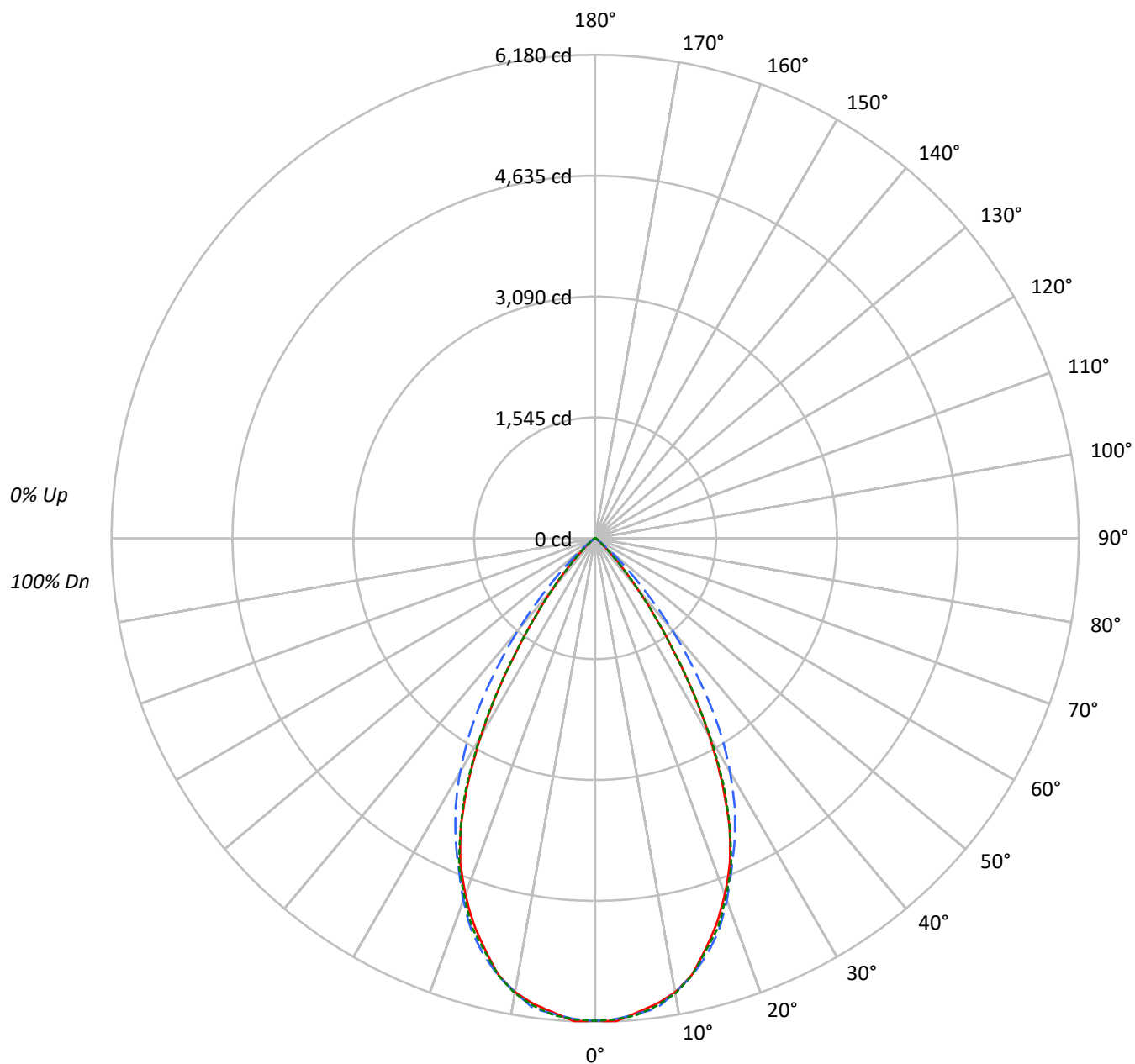
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	577.4	10.0
10°-20°	1536.0	26.5
20°-30°	1885.1	32.5
30°-40°	1301.4	22.5
40°-50°	406.9	7.0
50°-60°	63.6	1.1
60°-70°	18.4	0.3
70°-80°	6.0	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°	3998.6	69.0
0°-40°	5299.9	91.4
0°-60°	5770.3	99.6
0°-90°	5796.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5796.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6168	6168	6168	6168	6168	
5°	6086	6110	6102	6104	6117	575
15°	5441	5519	5511	5503	5460	1522
25°	4061	4166	4221	4194	4065	1820
35°	1714	2027	2514	2046	1722	1095
45°	323	441	707	437	330	289
55°	54	58	66	58	50	53
65°	16	19	16	19	16	17
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°	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8
2.5°	6179.5	6094.0	6148.4	6136.7	6167.8	6187.3	6167.8	6202.8	6179.5	6152.3	6160.1
5°	6086.2	6097.9	6094.0	6101.8	6109.5	6109.5	6148.4	6152.3	6160.1	6101.8	6117.3
7.5°	6004.6	6004.6	6024.0	6016.3	6043.5	6035.7	6039.6	6070.7	6074.6	6059.0	6047.4
10°	5891.9	5876.3	5856.9	5856.9	5891.9	5895.8	5926.9	5930.8	5954.1	5891.9	5899.7
12.5°	5717.0	5709.2	5678.1	5693.7	5720.9	5705.3	5755.9	5759.8	5752.0	5724.8	5740.3
15°	5441.1	5472.2	5464.4	5460.5	5522.7	5514.9	5511.0	5522.7	5526.6	5511.0	5499.4
17.5°	5165.1	5192.3	5196.2	5204.0	5215.6	5227.3	5242.9	5285.6	5270.1	5258.4	5297.3
20°	4846.4	4834.8	4865.9	4897.0	4908.6	4908.6	4931.9	4963.0	4939.7	4924.2	4928.0
22.5°	4500.5	4520.0	4504.4	4535.5	4551.1	4570.5	4593.8	4621.0	4601.6	4558.8	4609.4
25°	4061.4	4073.0	4123.5	4119.7	4143.0	4189.6	4224.6	4224.6	4224.6	4220.7	4220.7
27.5°	3509.5	3501.7	3563.9	3606.6	3664.9	3738.8	3785.4	3859.3	3870.9	3859.3	3832.1
30°	2918.7	2911.0	2988.7	3043.1	3148.0	3183.0	3311.3	3381.2	3455.1	3451.2	3431.8
32.5°	2304.7	2320.2	2382.4	2460.1	2545.6	2654.5	2774.9	2930.4	2996.5	3012.0	2977.0
35°	1713.9	1737.3	1795.6	1861.6	1966.6	2087.0	2254.2	2401.8	2514.5	2514.5	2487.3
37.5°	1235.9	1243.7	1298.1	1340.8	1449.7	1558.5	1702.3	1904.4	1974.3	2001.5	1974.3
40°	843.4	843.4	874.5	921.1	1010.5	1103.8	1235.9	1387.5	1488.5	1531.3	1484.6
42.5°	536.3	544.1	567.4	598.5	664.6	746.2	847.3	960.0	1033.8	1064.9	1022.1
45°	322.6	330.4	349.8	373.1	415.9	466.4	536.3	617.9	680.1	707.3	687.9
47.5°	194.3	202.1	209.9	225.4	256.5	291.5	326.5	373.1	412.0	415.9	408.1
50°	112.7	112.7	120.5	132.1	147.7	167.1	186.6	213.8	225.4	241.0	225.4
52.5°	73.8	73.8	73.8	77.7	85.5	93.3	101.0	116.6	124.4	124.4	120.5
55°	54.4	54.4	54.4	54.4	58.3	58.3	58.3	62.2	66.1	66.1	66.1
57.5°	38.9	38.9	38.9	42.8	42.8	42.8	38.9	38.9	38.9	38.9	38.9
60°	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	27.2	27.2	27.2
62.5°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
65°	15.5	15.5	15.5	19.4	19.4	19.4	19.4	15.5	15.5	15.5	15.5
67.5°	11.7	11.7	11.7	15.5	15.5	15.5	15.5	15.5	11.7	11.7	11.7
70°	7.8	7.8	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
72.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	0.0	0.0	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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°	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8
2.5°	6183.4	6163.9	6163.9	6163.9	6156.2	6163.9	6175.6	6156.2
5°	6117.3	6125.1	6090.1	6117.3	6129.0	6109.5	6156.2	6117.3
7.5°	6059.0	6047.4	5992.9	6031.8	6055.1	6062.9	6059.0	6027.9
10°	5942.4	5915.2	5891.9	5891.9	5884.1	5880.2	5923.0	5907.4
12.5°	5732.5	5752.0	5717.0	5736.4	5720.9	5724.8	5728.7	5720.9
15°	5553.8	5534.3	5487.7	5518.8	5499.4	5479.9	5518.8	5460.5
17.5°	5273.9	5270.1	5242.9	5223.4	5231.2	5227.3	5246.7	5219.5
20°	4943.6	4951.4	4935.8	4928.0	4916.4	4889.2	4912.5	4881.4
22.5°	4586.0	4593.8	4609.4	4578.3	4582.2	4543.3	4578.3	4543.3
25°	4224.6	4220.7	4201.3	4185.7	4143.0	4100.2	4092.5	4065.3
27.5°	3828.2	3801.0	3754.3	3703.8	3637.7	3579.4	3575.6	3556.1
30°	3392.9	3334.6	3249.1	3167.5	3066.4	2977.0	2977.0	2945.9
32.5°	2934.3	2802.1	2685.6	2584.5	2452.4	2401.8	2351.3	2324.1
35°	2386.3	2269.7	2129.8	1962.7	1900.5	1776.1	1783.9	1721.7
37.5°	1869.4	1725.6	1593.5	1457.4	1348.6	1290.3	1259.2	1228.1
40°	1387.5	1247.6	1103.8	1014.4	917.2	866.7	847.3	839.5
42.5°	948.3	831.7	738.4	664.6	614.1	559.7	544.1	536.3
45°	617.9	551.9	466.4	408.1	373.1	342.0	342.0	330.4
47.5°	369.2	326.5	283.7	244.8	221.5	202.1	194.3	190.4
50°	206.0	182.7	159.3	143.8	128.3	116.6	112.7	112.7
52.5°	112.7	101.0	93.3	81.6	73.8	73.8	73.8	70.0
55°	58.3	58.3	58.3	58.3	54.4	54.4	54.4	50.5
57.5°	38.9	38.9	42.8	42.8	42.8	38.9	38.9	38.9
60°	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
62.5°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
65°	15.5	19.4	19.4	19.4	19.4	15.5	15.5	15.5
67.5°	11.7	15.5	15.5	15.5	11.7	11.7	11.7	11.7
70°	11.7	11.7	11.7	11.7	11.7	7.8	7.8	7.8
72.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	3.9	3.9	3.9	3.9	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)