

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: P209398

Luminaire Tested: **LDSQ6B70D010 EU6B60709024 6LBSQ1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P209398
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 EU6B60709024 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 2400 K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5099.1 lumens
Efficiency: N/A
Efficacy: 64.2 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

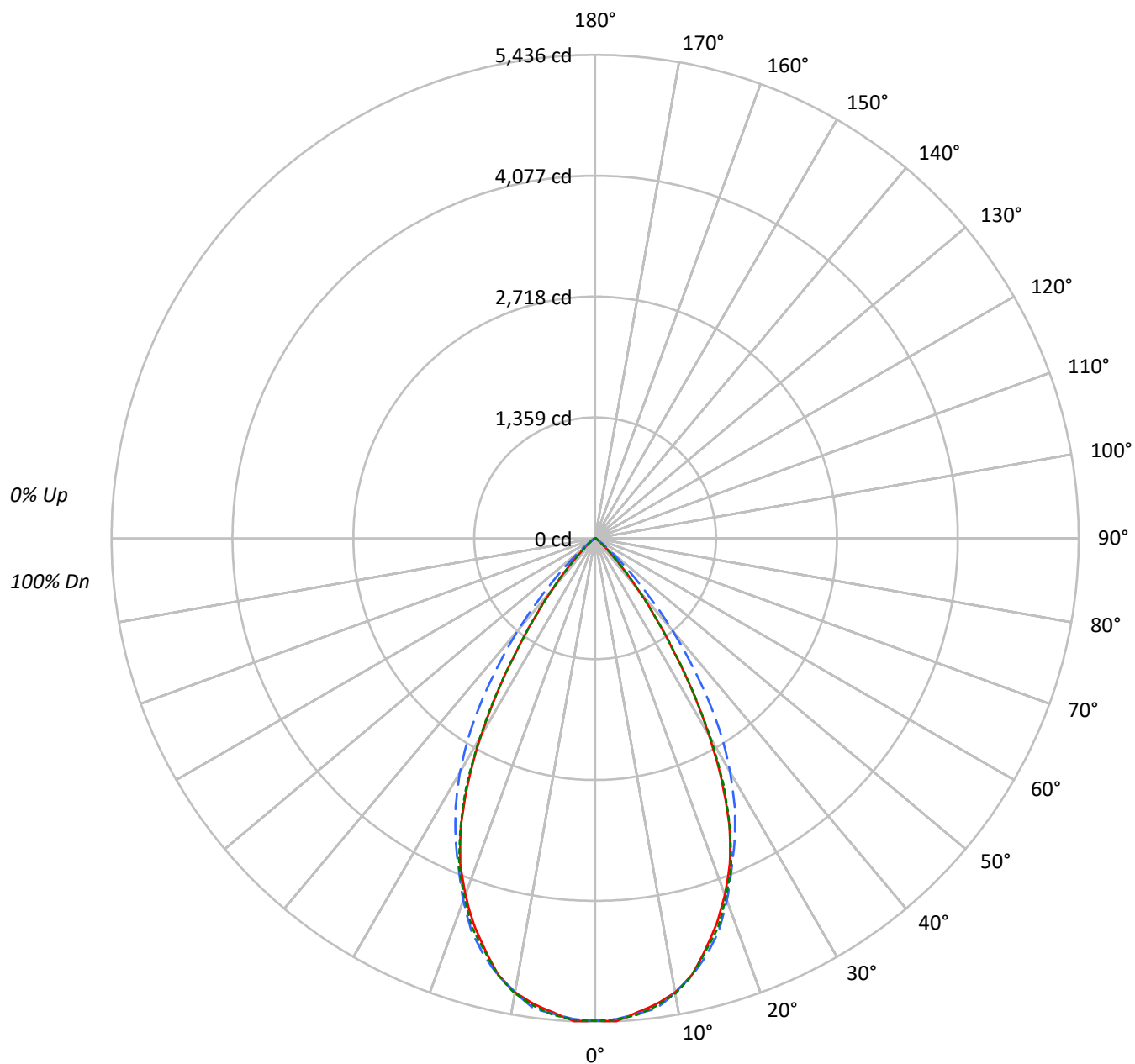
Input Watts (W): 79.45
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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°	508.0	10.0
10°-20°	1351.3	26.5
20°-30°	1658.4	32.5
30°-40°	1144.9	22.5
40°-50°	357.9	7.0
50°-60°	55.9	1.1
60°-70°	16.2	0.3
70°-80°	5.3	0.1
80°-90°	1.2	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°	3517.7	69.0
0°-40°	4662.6	91.4
0°-60°	5076.4	99.6
0°-90°	5099.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5099.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5426	5426	5426	5426	5426	
5°	5354	5375	5368	5370	5382	506
15°	4787	4855	4848	4841	4804	1339
25°	3573	3665	3713	3689	3576	1601
35°	1508	1783	2212	1800	1515	963
45°	284	388	622	385	291	254
55°	48	51	58	51	44	47
65°	14	17	14	17	14	15
75°	3	3	3	3	3	5
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°	5426.1	5426.1	5426.1	5426.1	5426.1	5426.1	5426.1	5426.1	5426.1	5426.1	5426.1
2.5°	5436.4	5361.2	5409.0	5398.8	5426.1	5443.2	5426.1	5456.9	5436.4	5412.4	5419.3
5°	5354.3	5364.6	5361.2	5368.0	5374.8	5374.8	5409.0	5412.4	5419.3	5368.0	5381.7
7.5°	5282.5	5282.5	5299.6	5292.8	5316.7	5309.9	5313.3	5340.6	5344.1	5330.4	5320.1
10°	5183.4	5169.7	5152.6	5152.6	5183.4	5186.8	5214.1	5217.6	5238.1	5183.4	5190.2
12.5°	5029.5	5022.7	4995.3	5009.0	5032.9	5019.2	5063.7	5067.1	5060.3	5036.3	5050.0
15°	4786.7	4814.1	4807.3	4803.8	4858.5	4851.7	4848.3	4858.5	4862.0	4848.3	4838.0
17.5°	4544.0	4567.9	4571.3	4578.2	4588.4	4598.7	4612.4	4650.0	4636.3	4626.0	4660.2
20°	4263.6	4253.4	4280.7	4308.1	4318.3	4318.3	4338.8	4366.2	4345.7	4332.0	4335.4
22.5°	3959.3	3976.4	3962.7	3990.1	4003.8	4020.9	4041.4	4065.3	4048.2	4010.6	4055.1
25°	3573.0	3583.2	3627.7	3624.2	3644.8	3685.8	3716.6	3716.6	3716.6	3713.1	3713.1
27.5°	3087.5	3080.6	3135.3	3172.9	3224.2	3289.2	3330.2	3395.2	3405.4	3395.2	3371.2
30°	2567.7	2560.9	2629.3	2677.2	2769.5	2800.2	2913.1	2974.6	3039.6	3036.2	3019.1
32.5°	2027.5	2041.2	2095.9	2164.3	2239.5	2335.2	2441.2	2578.0	2636.1	2649.8	2619.0
35°	1507.8	1528.3	1579.6	1637.8	1730.1	1836.1	1983.1	2113.0	2212.2	2212.2	2188.2
37.5°	1087.3	1094.1	1142.0	1179.6	1275.3	1371.1	1497.6	1675.4	1736.9	1760.8	1736.9
40°	741.9	741.9	769.3	810.3	889.0	971.0	1087.3	1220.6	1309.5	1347.1	1306.1
42.5°	471.8	478.7	499.2	526.5	584.7	656.5	745.4	844.5	909.5	936.8	899.2
45°	283.8	290.6	307.7	328.2	365.8	410.3	471.8	543.6	598.3	622.3	605.2
47.5°	171.0	177.8	184.6	198.3	225.7	256.4	287.2	328.2	362.4	365.8	359.0
50°	99.2	99.2	106.0	116.2	129.9	147.0	164.1	188.1	198.3	212.0	198.3
52.5°	65.0	65.0	65.0	68.4	75.2	82.1	88.9	102.6	109.4	109.4	106.0
55°	47.9	47.9	47.9	47.9	51.3	51.3	51.3	54.7	58.1	58.1	58.1
57.5°	34.2	34.2	34.2	37.6	37.6	37.6	34.2	34.2	34.2	34.2	34.2
60°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	23.9	23.9	23.9
62.5°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
65°	13.7	13.7	13.7	17.1	17.1	17.1	17.1	13.7	13.7	13.7	13.7
67.5°	10.3	10.3	10.3	13.7	13.7	13.7	13.7	13.7	10.3	10.3	10.3
70°	6.8	6.8	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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°	5426.1	5426.1	5426.1	5426.1	5426.1	5426.1	5426.1	5426.1
2.5°	5439.8	5422.7	5422.7	5422.7	5415.9	5422.7	5433.0	5415.9
5°	5381.7	5388.5	5357.7	5381.7	5391.9	5374.8	5415.9	5381.7
7.5°	5330.4	5320.1	5272.3	5306.4	5327.0	5333.8	5330.4	5303.0
10°	5227.8	5203.9	5183.4	5183.4	5176.5	5173.1	5210.7	5197.0
12.5°	5043.2	5060.3	5029.5	5046.6	5032.9	5036.3	5039.8	5032.9
15°	4885.9	4868.8	4827.8	4855.1	4838.0	4820.9	4855.1	4803.8
17.5°	4639.7	4636.3	4612.4	4595.3	4602.1	4598.7	4615.8	4591.9
20°	4349.1	4355.9	4342.3	4335.4	4325.2	4301.2	4321.7	4294.4
22.5°	4034.5	4041.4	4055.1	4027.7	4031.1	3996.9	4027.7	3996.9
25°	3716.6	3713.1	3696.1	3682.4	3644.8	3607.2	3600.3	3576.4
27.5°	3367.8	3343.9	3302.9	3258.4	3200.3	3149.0	3145.6	3128.5
30°	2984.9	2933.6	2858.4	2786.6	2697.7	2619.0	2619.0	2591.7
32.5°	2581.4	2465.2	2362.6	2273.7	2157.5	2113.0	2068.6	2044.6
35°	2099.3	1996.8	1873.7	1726.6	1671.9	1562.5	1569.4	1514.7
37.5°	1644.6	1518.1	1401.8	1282.2	1186.4	1135.1	1107.8	1080.4
40°	1220.6	1097.5	971.0	892.4	806.9	762.5	745.4	738.5
42.5°	834.3	731.7	649.6	584.7	540.2	492.4	478.7	471.8
45°	543.6	485.5	410.3	359.0	328.2	300.9	300.9	290.6
47.5°	324.8	287.2	249.6	215.4	194.9	177.8	171.0	167.5
50°	181.2	160.7	140.2	126.5	112.8	102.6	99.2	99.2
52.5°	99.2	88.9	82.1	71.8	65.0	65.0	65.0	61.5
55°	51.3	51.3	51.3	51.3	47.9	47.9	47.9	44.4
57.5°	34.2	34.2	37.6	37.6	37.6	34.2	34.2	34.2
60°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
62.5°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
65°	13.7	17.1	17.1	17.1	17.1	13.7	13.7	13.7
67.5°	10.3	13.7	13.7	13.7	10.3	10.3	10.3	10.3
70°	10.3	10.3	10.3	10.3	10.3	6.8	6.8	6.8
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	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)