

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: P136634

Luminaire Tested: **LD6A15D010TE ERW6A15835 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23376)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A15D010TE ERW6A15835 6LW121H
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOUBLE WALL WASH LUMINAIRE
SEMI-SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 3500K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1712.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

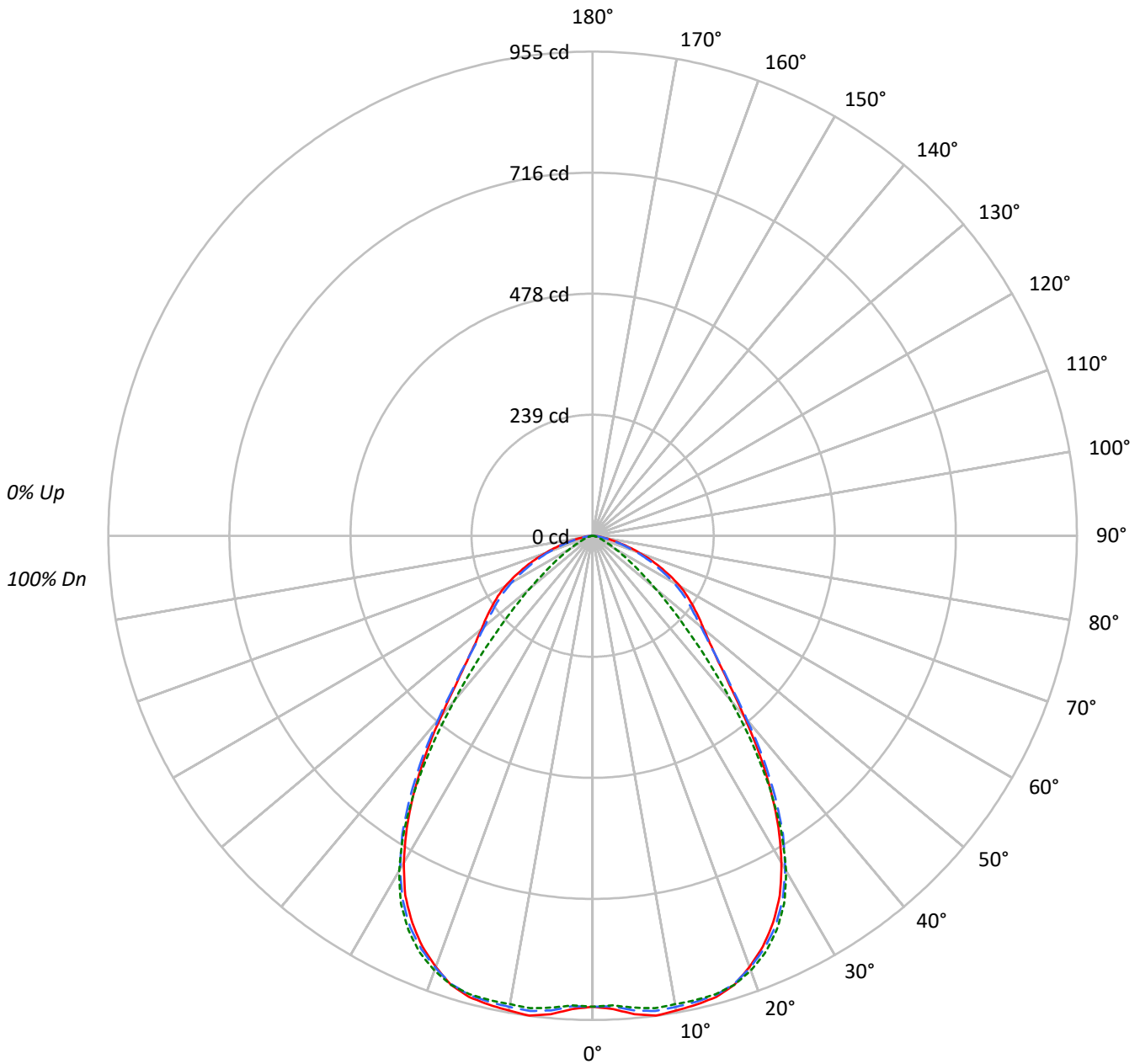
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69																			
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61																			
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55																			
6	77	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50																			
7	72	61	53	48	71	60	53	48	58	52	47	57	51	47	56	51	47	45																			
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41																			
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37																			
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	60595	60595	60595
5°	62032	61547	61187
10°	62994	62504	62140
15°	63604	63354	63226
20°	62818	62950	63332
25°	60626	61288	61814
30°	56086	57193	57472
35°	48726	49905	48583
40°	39551	40334	36093
45°	32302	32477	24487
50°	28987	28246	16270
55°	27458	26207	10476
60°	25966	24048	6733
65°	22755	20763	4261
70°	18636	16881	2804
75°	13461	12074	1865
80°	9017	7627	1390
85°	5539	4117	1347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	5.2
10°-20°	264.0	15.4
20°-30°	388.7	22.7
30°-40°	382.5	22.3
40°-50°	258.7	15.1
50°-60°	173.8	10.2
60°-70°	106.1	6.2
70°-80°	41.8	2.4
80°-90°	6.4	0.4
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°	742.6	43.4
0°-40°	1125.1	65.7
0°-60°	1557.6	91.0
0°-90°	1712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	947	944	940	939	934	91
15°	942	938	938	939	936	265
25°	842	845	851	860	859	385
35°	612	619	627	616	610	379
45°	350	356	352	291	265	277
55°	241	244	230	129	92	216
65°	147	148	134	54	28	146
75°	53	53	48	18	7	60
85°	7	6	6	3	2	10
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°	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8
2.5°	934.3	930.6	932.5	930.6	930.6	926.9	930.6	930.6	928.8	928.8	928.8
5°	947.2	945.4	947.2	943.5	945.4	941.7	943.5	941.7	939.8	939.8	939.8
7.5°	954.6	950.9	952.7	949.0	950.9	947.2	949.0	947.2	945.4	945.4	943.5
10°	950.9	949.0	949.0	947.2	947.2	943.5	947.2	945.4	941.7	943.5	941.7
12.5°	947.2	945.4	947.2	943.5	945.4	939.8	943.5	941.7	939.8	941.7	939.8
15°	941.7	939.8	941.7	938.0	939.8	936.1	939.8	938.0	936.1	938.0	936.1
17.5°	928.8	926.9	928.8	926.9	928.8	923.2	926.9	926.9	925.1	926.9	926.9
20°	904.8	903.0	904.8	903.0	904.8	901.1	904.8	904.8	903.0	906.7	906.7
22.5°	877.2	877.2	877.2	877.2	879.0	875.3	879.0	879.0	879.0	882.7	882.7
25°	842.2	844.0	844.0	844.0	845.9	844.0	847.7	847.7	847.7	851.4	851.4
27.5°	799.8	799.8	801.6	803.5	803.5	801.6	805.3	807.2	807.2	810.8	812.7
30°	744.5	746.3	748.2	750.0	751.9	750.0	753.7	753.7	755.6	759.2	761.1
32.5°	681.8	685.5	685.5	689.2	691.1	689.2	694.7	692.9	694.7	698.4	700.3
35°	611.8	615.5	615.5	619.2	619.2	619.2	622.9	624.7	624.7	626.6	626.6
37.5°	538.1	541.8	539.9	545.5	545.5	543.6	551.0	551.0	549.2	551.0	549.2
40°	464.4	468.1	468.1	471.8	471.8	471.8	477.3	473.6	473.6	473.6	469.9
42.5°	399.9	403.6	403.6	407.3	407.3	407.3	410.9	410.9	407.3	405.4	399.9
45°	350.1	352.0	353.8	355.7	355.7	355.7	359.3	357.5	355.7	352.0	342.8
47.5°	313.3	315.1	315.1	317.0	317.0	317.0	318.8	318.8	315.1	309.6	300.4
50°	285.6	285.6	287.5	287.5	289.3	287.5	289.3	287.5	283.8	278.3	267.2
52.5°	263.5	263.5	263.5	265.4	265.4	265.4	265.4	263.5	259.8	252.5	239.6
55°	241.4	241.4	243.3	243.3	245.1	243.3	243.3	241.4	235.9	230.4	215.6
57.5°	221.1	221.1	221.1	223.0	223.0	223.0	221.1	219.3	215.6	208.2	193.5
60°	199.0	199.0	199.0	199.0	200.9	199.0	199.0	195.3	191.7	184.3	171.4
62.5°	173.2	173.2	173.2	175.1	175.1	173.2	173.2	169.5	165.9	158.5	145.6
65°	147.4	147.4	147.4	149.3	149.3	147.4	147.4	143.7	140.1	134.5	121.6
67.5°	123.5	123.5	123.5	123.5	123.5	121.6	121.6	119.8	116.1	110.6	101.4
70°	97.7	97.7	97.7	99.5	97.7	97.7	97.7	95.8	92.1	88.5	79.2
72.5°	75.6	75.6	75.6	75.6	75.6	75.6	73.7	73.7	70.0	66.3	60.8
75°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	51.6	49.8	47.9	42.4
77.5°	36.9	36.9	36.9	36.9	36.9	36.9	36.9	35.0	35.0	33.2	29.5
80°	24.0	24.0	24.0	24.0	24.0	22.1	22.1	22.1	22.1	20.3	18.4
82.5°	14.7	12.9	14.7	12.9	12.9	12.9	12.9	12.9	12.9	12.9	11.1
85°	7.4	7.4	7.4	7.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8
2.5°	928.8	925.1	928.8	930.6	926.9	928.8	930.6	926.9
5°	939.8	934.3	938.0	939.8	934.3	936.1	938.0	934.3
7.5°	945.4	939.8	943.5	943.5	938.0	941.7	943.5	939.8
10°	941.7	938.0	941.7	941.7	938.0	939.8	941.7	938.0
12.5°	939.8	936.1	939.8	941.7	936.1	939.8	941.7	938.0
15°	938.0	934.3	938.0	939.8	934.3	938.0	939.8	936.1
17.5°	926.9	925.1	930.6	930.6	926.9	930.6	932.5	928.8
20°	908.5	906.7	912.2	914.0	910.3	914.0	915.9	912.2
22.5°	884.5	882.7	888.2	890.1	886.4	890.1	891.9	890.1
25°	855.1	853.2	858.7	860.6	856.9	860.6	862.4	858.7
27.5°	814.5	812.7	818.2	818.2	816.4	820.1	821.9	818.2
30°	762.9	759.2	764.8	762.9	761.1	764.8	764.8	762.9
32.5°	698.4	694.7	698.4	694.7	694.7	696.6	696.6	692.9
35°	622.9	621.0	619.2	613.7	613.7	613.7	613.7	610.0
37.5°	543.6	538.1	534.4	525.2	521.5	523.4	521.5	517.8
40°	462.5	453.3	446.0	434.9	429.4	429.4	427.5	423.8
42.5°	390.7	377.8	366.7	352.0	346.4	344.6	340.9	339.1
45°	331.7	315.1	298.5	283.8	274.6	272.7	269.1	265.4
47.5°	285.6	265.4	245.1	228.5	219.3	213.8	210.1	208.2
50°	248.8	226.7	202.7	182.4	173.2	165.9	162.2	160.3
52.5°	219.3	195.3	167.7	147.4	136.4	129.0	125.3	121.6
55°	195.3	167.7	140.1	117.9	106.9	99.5	95.8	92.1
57.5°	171.4	145.6	116.1	94.0	82.9	75.6	71.9	70.0
60°	149.3	123.5	95.8	75.6	64.5	57.1	53.4	51.6
62.5°	127.2	103.2	79.2	60.8	49.8	42.4	38.7	38.7
65°	105.0	84.8	62.7	46.1	36.9	31.3	27.6	27.6
67.5°	86.6	68.2	49.8	36.9	27.6	24.0	20.3	20.3
70°	68.2	55.3	38.7	29.5	22.1	16.6	14.7	14.7
72.5°	51.6	42.4	29.5	22.1	16.6	12.9	11.1	11.1
75°	36.9	29.5	22.1	14.7	11.1	9.2	7.4	7.4
77.5°	25.8	20.3	14.7	11.1	7.4	5.5	5.5	5.5
80°	16.6	12.9	9.2	7.4	5.5	3.7	3.7	3.7
82.5°	9.2	7.4	5.5	3.7	3.7	1.8	1.8	1.8
85°	3.7	3.7	3.7	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	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)