

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: P136600

Luminaire Tested: **LD6A10D010TE ERW6A10827 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136600
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: LD6A10D010TE ERW6A10827 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 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1095.0 lumens
Efficiency: N/A
Efficacy: 78.2 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

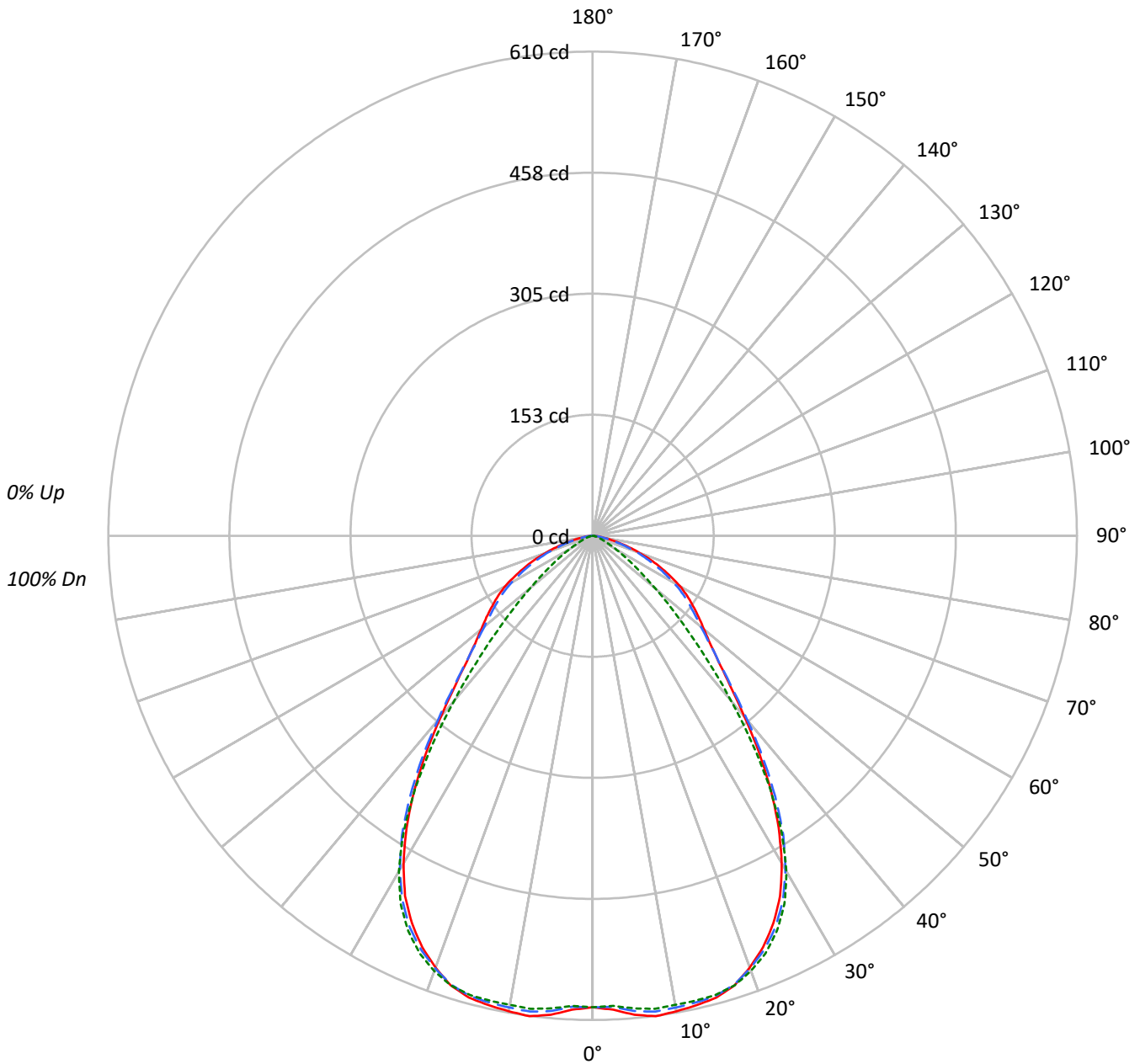
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61				61
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55				55
6	77	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50				50
7	72	61	53	48	71	60	53	48	58	52	47	57	51	47	56	51	47	45				45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41				41
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	38753	38753	38753
5°	39674	39366	39137
10°	40291	39980	39742
15°	40681	40518	40444
20°	40178	40261	40504
25°	38778	39196	39541
30°	35874	36582	36763
35°	31165	31913	31069
40°	25294	25797	23088
45°	20658	20769	15657
50°	18543	18066	10403
55°	17562	16754	6699
60°	16610	15384	4306
65°	14557	13276	2732
70°	11922	10796	1793
75°	8621	7713	1185
80°	5748	4884	902
85°	3518	2620	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	5.2
10°-20°	168.9	15.4
20°-30°	248.6	22.7
30°-40°	244.6	22.3
40°-50°	165.4	15.1
50°-60°	111.2	10.2
60°-70°	67.9	6.2
70°-80°	26.8	2.4
80°-90°	4.1	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°	475.0	43.4
0°-40°	719.6	65.7
0°-60°	996.2	91.0
0°-90°	1095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	594	594	594	594	594	
5°	606	604	601	600	598	58
15°	602	600	600	600	599	169
25°	539	540	544	550	549	246
35°	391	396	401	394	390	242
45°	224	228	225	186	170	177
55°	154	156	147	82	59	138
65°	94	95	86	35	18	94
75°	34	34	31	12	5	38
85°	5	4	4	2	1	6
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°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
2.5°	597.6	595.2	596.4	595.2	595.2	592.9	595.2	595.2	594.0	594.0	594.0
5°	605.8	604.7	605.8	603.5	604.7	602.3	603.5	602.3	601.1	601.1	601.1
7.5°	610.5	608.2	609.4	607.0	608.2	605.8	607.0	605.8	604.7	604.7	603.5
10°	608.2	607.0	607.0	605.8	605.8	603.5	605.8	604.7	602.3	603.5	602.3
12.5°	605.8	604.7	605.8	603.5	604.7	601.1	603.5	602.3	601.1	602.3	601.1
15°	602.3	601.1	602.3	599.9	601.1	598.8	601.1	599.9	598.8	599.9	598.8
17.5°	594.0	592.9	594.0	592.9	594.0	590.5	592.9	592.9	591.7	592.9	592.9
20°	578.7	577.5	578.7	577.5	578.7	576.4	578.7	578.7	577.5	579.9	579.9
22.5°	561.0	561.0	561.0	561.0	562.2	559.9	562.2	562.2	562.2	564.6	564.6
25°	538.7	539.8	539.8	539.8	541.0	539.8	542.2	542.2	542.2	544.5	544.5
27.5°	511.5	511.5	512.7	513.9	513.9	512.7	515.1	516.3	516.3	518.6	519.8
30°	476.2	477.4	478.5	479.7	480.9	479.7	482.1	482.1	483.3	485.6	486.8
32.5°	436.1	438.5	438.5	440.8	442.0	440.8	444.4	443.2	444.4	446.7	447.9
35°	391.3	393.7	393.7	396.0	396.0	396.0	398.4	399.6	399.6	400.7	400.7
37.5°	344.2	346.5	345.3	348.9	348.9	347.7	352.4	352.4	351.2	352.4	351.2
40°	297.0	299.4	299.4	301.7	301.7	301.7	305.3	302.9	302.9	302.9	300.6
42.5°	255.8	258.1	258.1	260.5	260.5	260.5	262.8	262.8	260.5	259.3	255.8
45°	223.9	225.1	226.3	227.5	227.5	227.5	229.8	228.7	227.5	225.1	219.2
47.5°	200.4	201.6	201.6	202.7	202.7	202.7	203.9	203.9	201.6	198.0	192.1
50°	182.7	182.7	183.9	183.9	185.1	183.9	185.1	183.9	181.5	178.0	170.9
52.5°	168.5	168.5	168.5	169.7	169.7	169.7	169.7	168.5	166.2	161.5	153.2
55°	154.4	154.4	155.6	155.6	156.8	155.6	155.6	154.4	150.9	147.3	137.9
57.5°	141.4	141.4	141.4	142.6	142.6	142.6	141.4	140.3	137.9	133.2	123.8
60°	127.3	127.3	127.3	127.3	128.5	127.3	127.3	124.9	122.6	117.9	109.6
62.5°	110.8	110.8	110.8	112.0	112.0	110.8	110.8	108.4	106.1	101.4	93.1
65°	94.3	94.3	94.3	95.5	95.5	94.3	94.3	91.9	89.6	86.0	77.8
67.5°	79.0	79.0	79.0	79.0	79.0	77.8	77.8	76.6	74.3	70.7	64.8
70°	62.5	62.5	62.5	63.6	62.5	62.5	62.5	61.3	58.9	56.6	50.7
72.5°	48.3	48.3	48.3	48.3	48.3	48.3	47.1	47.1	44.8	42.4	38.9
75°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	33.0	31.8	30.6	27.1
77.5°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	22.4	22.4	21.2	18.9
80°	15.3	15.3	15.3	15.3	15.3	14.1	14.1	14.1	14.1	13.0	11.8
82.5°	9.4	8.3	9.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3	7.1
85°	4.7	4.7	4.7	4.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	594.0	594.0	594.0	594.0	594.0	594.0	594.0	594.0
2.5°	594.0	591.7	594.0	595.2	592.9	594.0	595.2	592.9
5°	601.1	597.6	599.9	601.1	597.6	598.8	599.9	597.6
7.5°	604.7	601.1	603.5	603.5	599.9	602.3	603.5	601.1
10°	602.3	599.9	602.3	602.3	599.9	601.1	602.3	599.9
12.5°	601.1	598.8	601.1	602.3	598.8	601.1	602.3	599.9
15°	599.9	597.6	599.9	601.1	597.6	599.9	601.1	598.8
17.5°	592.9	591.7	595.2	595.2	592.9	595.2	596.4	594.0
20°	581.1	579.9	583.4	584.6	582.3	584.6	585.8	583.4
22.5°	565.8	564.6	568.1	569.3	566.9	569.3	570.5	569.3
25°	546.9	545.7	549.3	550.4	548.1	550.4	551.6	549.3
27.5°	521.0	519.8	523.3	523.3	522.1	524.5	525.7	523.3
30°	488.0	485.6	489.1	488.0	486.8	489.1	489.1	488.0
32.5°	446.7	444.4	446.7	444.4	444.4	445.5	445.5	443.2
35°	398.4	397.2	396.0	392.5	392.5	392.5	392.5	390.1
37.5°	347.7	344.2	341.8	335.9	333.6	334.7	333.6	331.2
40°	295.8	290.0	285.2	278.2	274.6	274.6	273.5	271.1
42.5°	249.9	241.6	234.6	225.1	221.6	220.4	218.1	216.9
45°	212.2	201.6	190.9	181.5	175.6	174.4	172.1	169.7
47.5°	182.7	169.7	156.8	146.2	140.3	136.7	134.4	133.2
50°	159.1	145.0	129.7	116.7	110.8	106.1	103.7	102.5
52.5°	140.3	124.9	107.3	94.3	87.2	82.5	80.1	77.8
55°	124.9	107.3	89.6	75.4	68.4	63.6	61.3	58.9
57.5°	109.6	93.1	74.3	60.1	53.0	48.3	46.0	44.8
60°	95.5	79.0	61.3	48.3	41.3	36.5	34.2	33.0
62.5°	81.3	66.0	50.7	38.9	31.8	27.1	24.8	24.8
65°	67.2	54.2	40.1	29.5	23.6	20.0	17.7	17.7
67.5°	55.4	43.6	31.8	23.6	17.7	15.3	13.0	13.0
70°	43.6	35.4	24.8	18.9	14.1	10.6	9.4	9.4
72.5°	33.0	27.1	18.9	14.1	10.6	8.3	7.1	7.1
75°	23.6	18.9	14.1	9.4	7.1	5.9	4.7	4.7
77.5°	16.5	13.0	9.4	7.1	4.7	3.5	3.5	3.5
80°	10.6	8.3	5.9	4.7	3.5	2.4	2.4	2.4
82.5°	5.9	4.7	3.5	2.4	2.4	1.2	1.2	1.2
85°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	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)