

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: P136603

Luminaire Tested: **LD6A10D010TE ERW6A10840 6LW121H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136603  
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 ERW6A10840 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 4000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1200.0 lumens  
Efficiency: N/A  
Efficacy: 85.7 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

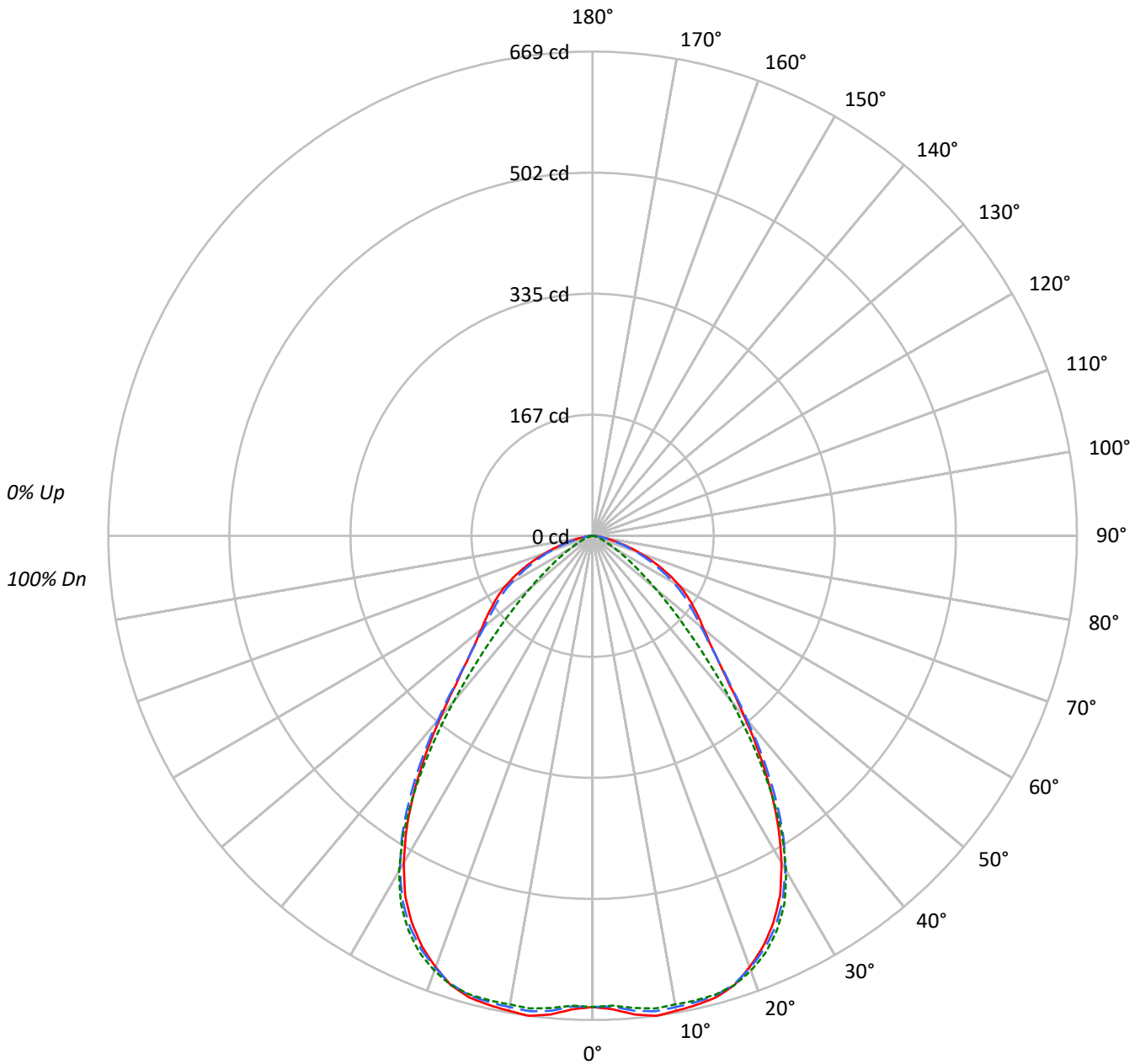
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	42472	42472	42472
5°	43479	43145	42889
10°	44154	43809	43557
15°	44585	44409	44321
20°	44031	44121	44392
25°	42493	42961	43328
30°	39309	40092	40288
35°	34151	34980	34048
40°	27721	28275	25303
45°	22642	22762	17161
50°	20320	19792	11408
55°	19245	18370	7348
60°	18202	16858	4723
65°	15947	14557	2995
70°	13066	11827	1965
75°	9453	8470	1311
80°	6312	5335	977
85°	3892	2919	973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.0	5.2
10°-20°	185.1	15.4
20°-30°	272.4	22.7
30°-40°	268.1	22.3
40°-50°	181.3	15.1
50°-60°	121.9	10.2
60°-70°	74.4	6.2
70°-80°	29.3	2.4
80°-90°	4.5	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°	520.5	43.4
0°-40°	788.6	65.7
0°-60°	1091.8	91.0
0°-90°	1200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1200.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	664	661	659	658	655	63
15°	660	658	658	658	656	186
25°	590	592	597	603	602	270
35°	429	434	439	432	428	266
45°	245	249	247	204	186	194
55°	169	171	162	90	65	152
65°	103	104	94	38	19	103
75°	38	38	34	13	5	42
85°	5	4	4	2	1	7
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°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
2.5°	654.9	652.3	653.6	652.3	652.3	649.7	652.3	652.3	651.0	651.0	651.0
5°	663.9	662.6	663.9	661.3	662.6	660.1	661.3	660.1	658.8	658.8	658.8
7.5°	669.1	666.5	667.8	665.2	666.5	663.9	665.2	663.9	662.6	662.6	661.3
10°	666.5	665.2	665.2	663.9	663.9	661.3	663.9	662.6	660.1	661.3	660.1
12.5°	663.9	662.6	663.9	661.3	662.6	658.8	661.3	660.1	658.8	660.1	658.8
15°	660.1	658.8	660.1	657.5	658.8	656.2	658.8	657.5	656.2	657.5	656.2
17.5°	651.0	649.7	651.0	649.7	651.0	647.1	649.7	649.7	648.4	649.7	649.7
20°	634.2	632.9	634.2	632.9	634.2	631.6	634.2	634.2	632.9	635.5	635.5
22.5°	614.8	614.8	614.8	614.8	616.1	613.6	616.1	616.1	616.1	618.7	618.7
25°	590.3	591.6	591.6	591.6	592.9	591.6	594.2	594.2	594.2	596.8	596.8
27.5°	560.6	560.6	561.9	563.2	563.2	561.9	564.5	565.8	565.8	568.3	569.6
30°	521.8	523.1	524.4	525.7	527.0	525.7	528.3	528.3	529.6	532.2	533.5
32.5°	477.9	480.5	480.5	483.1	484.4	483.1	487.0	485.7	487.0	489.6	490.8
35°	428.8	431.4	431.4	434.0	434.0	434.0	436.6	437.9	437.9	439.2	439.2
37.5°	377.2	379.8	378.5	382.3	382.3	381.0	386.2	386.2	384.9	386.2	384.9
40°	325.5	328.1	328.1	330.7	330.7	330.7	334.5	332.0	332.0	332.0	329.4
42.5°	280.3	282.9	282.9	285.5	285.5	285.5	288.0	288.0	285.5	284.2	280.3
45°	245.4	246.7	248.0	249.3	249.3	249.3	251.9	250.6	249.3	246.7	240.3
47.5°	219.6	220.9	220.9	222.2	222.2	222.2	223.5	223.5	220.9	217.0	210.5
50°	200.2	200.2	201.5	201.5	202.8	201.5	202.8	201.5	198.9	195.0	187.3
52.5°	184.7	184.7	184.7	186.0	186.0	186.0	186.0	184.7	182.1	177.0	167.9
55°	169.2	169.2	170.5	170.5	171.8	170.5	170.5	169.2	165.3	161.5	151.1
57.5°	155.0	155.0	155.0	156.3	156.3	156.3	155.0	153.7	151.1	146.0	135.6
60°	139.5	139.5	139.5	139.5	140.8	139.5	139.5	136.9	134.3	129.2	120.1
62.5°	121.4	121.4	121.4	122.7	122.7	121.4	121.4	118.8	116.3	111.1	102.0
65°	103.3	103.3	103.3	104.6	104.6	103.3	103.3	100.8	98.2	94.3	85.3
67.5°	86.5	86.5	86.5	86.5	86.5	85.3	85.3	84.0	81.4	77.5	71.0
70°	68.5	68.5	68.5	69.8	68.5	68.5	68.5	67.2	64.6	62.0	55.5
72.5°	53.0	53.0	53.0	53.0	53.0	53.0	51.7	51.7	49.1	46.5	42.6
75°	37.5	37.5	37.5	37.5	37.5	37.5	37.5	36.2	34.9	33.6	29.7
77.5°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	24.5	24.5	23.3	20.7
80°	16.8	16.8	16.8	16.8	16.8	15.5	15.5	15.5	15.5	14.2	12.9
82.5°	10.3	9.0	10.3	9.0	9.0	9.0	9.0	9.0	9.0	9.0	7.8
85°	5.2	5.2	5.2	5.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
2.5°	651.0	648.4	651.0	652.3	649.7	651.0	652.3	649.7
5°	658.8	654.9	657.5	658.8	654.9	656.2	657.5	654.9
7.5°	662.6	658.8	661.3	661.3	657.5	660.1	661.3	658.8
10°	660.1	657.5	660.1	660.1	657.5	658.8	660.1	657.5
12.5°	658.8	656.2	658.8	660.1	656.2	658.8	660.1	657.5
15°	657.5	654.9	657.5	658.8	654.9	657.5	658.8	656.2
17.5°	649.7	648.4	652.3	652.3	649.7	652.3	653.6	651.0
20°	636.8	635.5	639.4	640.7	638.1	640.7	642.0	639.4
22.5°	620.0	618.7	622.6	623.9	621.3	623.9	625.2	623.9
25°	599.3	598.1	601.9	603.2	600.6	603.2	604.5	601.9
27.5°	570.9	569.6	573.5	573.5	572.2	574.8	576.1	573.5
30°	534.8	532.2	536.1	534.8	533.5	536.1	536.1	534.8
32.5°	489.6	487.0	489.6	487.0	487.0	488.3	488.3	485.7
35°	436.6	435.3	434.0	430.1	430.1	430.1	430.1	427.5
37.5°	381.0	377.2	374.6	368.1	365.5	366.8	365.5	363.0
40°	324.2	317.8	312.6	304.8	301.0	301.0	299.7	297.1
42.5°	273.8	264.8	257.0	246.7	242.8	241.5	239.0	237.7
45°	232.5	220.9	209.3	198.9	192.5	191.2	188.6	186.0
47.5°	200.2	186.0	171.8	160.2	153.7	149.8	147.3	146.0
50°	174.4	158.9	142.1	127.9	121.4	116.3	113.7	112.4
52.5°	153.7	136.9	117.5	103.3	95.6	90.4	87.8	85.3
55°	136.9	117.5	98.2	82.7	74.9	69.8	67.2	64.6
57.5°	120.1	102.0	81.4	65.9	58.1	53.0	50.4	49.1
60°	104.6	86.5	67.2	53.0	45.2	40.0	37.5	36.2
62.5°	89.1	72.3	55.5	42.6	34.9	29.7	27.1	27.1
65°	73.6	59.4	43.9	32.3	25.8	22.0	19.4	19.4
67.5°	60.7	47.8	34.9	25.8	19.4	16.8	14.2	14.2
70°	47.8	38.8	27.1	20.7	15.5	11.6	10.3	10.3
72.5°	36.2	29.7	20.7	15.5	11.6	9.0	7.8	7.8
75°	25.8	20.7	15.5	10.3	7.8	6.5	5.2	5.2
77.5°	18.1	14.2	10.3	7.8	5.2	3.9	3.9	3.9
80°	11.6	9.0	6.5	5.2	3.9	2.6	2.6	2.6
82.5°	6.5	5.2	3.9	2.6	2.6	1.3	1.3	1.3
85°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	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)