

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: P136604

Luminaire Tested: **LD6A10D010TE ERW6A10927 6LW121H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136604  
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 ERW6A10927 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: 1005.2 lumens  
Efficiency: N/A  
Efficacy: 71.8 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

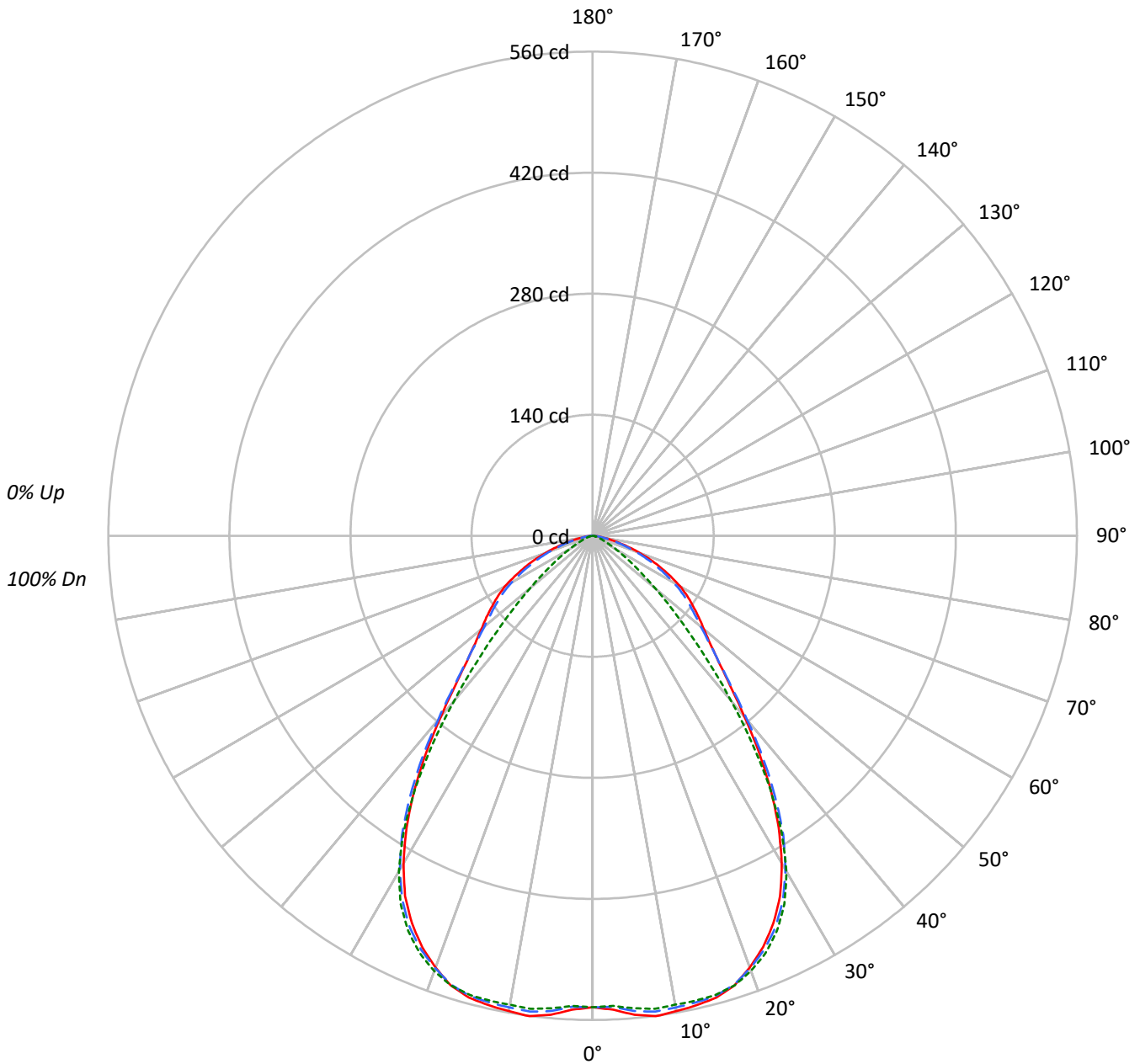
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	35576	35576	35576
5°	36419	36137	35928
10°	36986	36701	36482
15°	37344	37195	37128
20°	36880	36956	37185
25°	35597	35985	36302
30°	32936	33584	33749
35°	28608	29293	28521
40°	23216	23685	21198
45°	18960	19062	14375
50°	17021	16585	9551
55°	16117	15378	6154
60°	15253	14118	3954
65°	13369	12180	2501
70°	10949	9919	1640
75°	7915	7083	1084
80°	5260	4471	827
85°	3219	2395	823



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.8	5.2
10°-20°	155.0	15.4
20°-30°	228.2	22.7
30°-40°	224.6	22.3
40°-50°	151.9	15.1
50°-60°	102.1	10.2
60°-70°	62.3	6.2
70°-80°	24.6	2.4
80°-90°	3.8	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°	436.0	43.4
0°-40°	660.6	65.7
0°-60°	914.5	91.0
0°-90°	1005.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1005.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	545	545	545	545	545	
5°	556	554	552	551	549	53
15°	553	551	551	551	550	155
25°	494	496	500	505	504	226
35°	359	364	368	362	358	223
45°	206	209	207	171	156	162
55°	142	143	135	76	54	127
65°	87	87	79	32	16	86
75°	31	31	28	11	4	35
85°	4	3	3	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°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3
2.5°	548.6	546.4	547.5	546.4	546.4	544.3	546.4	546.4	545.3	545.3	545.3
5°	556.1	555.1	556.1	554.0	555.1	552.9	554.0	552.9	551.8	551.8	551.8
7.5°	560.4	558.3	559.4	557.2	558.3	556.1	557.2	556.1	555.1	555.1	554.0
10°	558.3	557.2	557.2	556.1	556.1	554.0	556.1	555.1	552.9	554.0	552.9
12.5°	556.1	555.1	556.1	554.0	555.1	551.8	554.0	552.9	551.8	552.9	551.8
15°	552.9	551.8	552.9	550.7	551.8	549.7	551.8	550.7	549.7	550.7	549.7
17.5°	545.3	544.3	545.3	544.3	545.3	542.1	544.3	544.3	543.2	544.3	544.3
20°	531.2	530.1	531.2	530.1	531.2	529.1	531.2	531.2	530.1	532.3	532.3
22.5°	515.0	515.0	515.0	515.0	516.1	514.0	516.1	516.1	516.1	518.3	518.3
25°	494.5	495.5	495.5	495.5	496.6	495.5	497.7	497.7	497.7	499.9	499.9
27.5°	469.6	469.6	470.7	471.8	471.8	470.7	472.9	474.0	474.0	476.1	477.2
30°	437.2	438.3	439.3	440.4	441.5	440.4	442.6	442.6	443.7	445.8	446.9
32.5°	400.3	402.5	402.5	404.7	405.8	404.7	408.0	406.9	408.0	410.1	411.2
35°	359.2	361.4	361.4	363.5	363.5	363.5	365.7	366.8	366.8	367.8	367.8
37.5°	316.0	318.1	317.0	320.3	320.3	319.2	323.5	323.5	322.4	323.5	322.4
40°	272.6	274.8	274.8	277.0	277.0	277.0	280.3	278.1	278.1	278.1	276.0
42.5°	234.8	236.9	236.9	239.1	239.1	239.1	241.3	241.3	239.1	238.0	234.8
45°	205.5	206.6	207.7	208.8	208.8	208.8	211.0	209.9	208.8	206.6	201.2
47.5°	184.0	185.1	185.1	186.1	186.1	186.1	187.2	187.2	185.1	181.8	176.3
50°	167.7	167.7	168.8	168.8	169.9	168.8	169.9	168.8	166.6	163.4	156.9
52.5°	154.7	154.7	154.7	155.8	155.8	155.8	155.8	154.7	152.6	148.3	140.6
55°	141.7	141.7	142.8	142.8	143.9	142.8	142.8	141.7	138.5	135.2	126.6
57.5°	129.8	129.8	129.8	130.9	130.9	130.9	129.8	128.8	126.6	122.3	113.6
60°	116.9	116.9	116.9	116.9	118.0	116.9	116.9	114.7	112.5	108.2	100.6
62.5°	101.7	101.7	101.7	102.8	102.8	101.7	101.7	99.5	97.4	93.1	85.5
65°	86.6	86.6	86.6	87.7	87.7	86.6	86.6	84.4	82.3	78.9	71.4
67.5°	72.5	72.5	72.5	72.5	72.5	71.4	71.4	70.3	68.2	64.9	59.5
70°	57.4	57.4	57.4	58.4	57.4	57.4	57.4	56.3	54.1	52.0	46.5
72.5°	44.3	44.3	44.3	44.3	44.3	44.3	43.2	43.2	41.1	38.9	35.7
75°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	30.3	29.2	28.1	24.9
77.5°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	20.6	20.6	19.5	17.4
80°	14.0	14.0	14.0	14.0	14.0	12.9	12.9	12.9	12.9	11.9	10.8
82.5°	8.6	7.6	8.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	6.5
85°	4.3	4.3	4.3	4.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	545.3	545.3	545.3	545.3	545.3	545.3	545.3	545.3
2.5°	545.3	543.2	545.3	546.4	544.3	545.3	546.4	544.3
5°	551.8	548.6	550.7	551.8	548.6	549.7	550.7	548.6
7.5°	555.1	551.8	554.0	554.0	550.7	552.9	554.0	551.8
10°	552.9	550.7	552.9	552.9	550.7	551.8	552.9	550.7
12.5°	551.8	549.7	551.8	552.9	549.7	551.8	552.9	550.7
15°	550.7	548.6	550.7	551.8	548.6	550.7	551.8	549.7
17.5°	544.3	543.2	546.4	546.4	544.3	546.4	547.5	545.3
20°	533.4	532.3	535.6	536.7	534.6	536.7	537.8	535.6
22.5°	519.4	518.3	521.5	522.6	520.4	522.6	523.7	522.6
25°	502.1	501.0	504.3	505.3	503.2	505.3	506.4	504.3
27.5°	478.3	477.2	480.4	480.4	479.3	481.5	482.6	480.4
30°	448.0	445.8	449.0	448.0	446.9	449.0	449.0	448.0
32.5°	410.1	408.0	410.1	408.0	408.0	409.0	409.0	406.9
35°	365.7	364.6	363.5	360.3	360.3	360.3	360.3	358.1
37.5°	319.2	316.0	313.8	308.4	306.2	307.3	306.2	304.0
40°	271.5	266.2	261.8	255.4	252.1	252.1	251.1	248.9
42.5°	229.4	221.8	215.4	206.6	203.4	202.3	200.2	199.1
45°	194.8	185.1	175.2	166.6	161.2	160.1	158.0	155.8
47.5°	167.7	155.8	143.9	134.2	128.8	125.5	123.4	122.3
50°	146.1	133.1	119.1	107.1	101.7	97.4	95.2	94.1
52.5°	128.8	114.7	98.5	86.6	80.0	75.7	73.5	71.4
55°	114.7	98.5	82.3	69.2	62.8	58.4	56.3	54.1
57.5°	100.6	85.5	68.2	55.2	48.7	44.3	42.2	41.1
60°	87.7	72.5	56.3	44.3	37.9	33.5	31.4	30.3
62.5°	74.6	60.6	46.5	35.7	29.2	24.9	22.8	22.8
65°	61.7	49.8	36.8	27.1	21.7	18.4	16.2	16.2
67.5°	50.9	40.0	29.2	21.7	16.2	14.0	11.9	11.9
70°	40.0	32.5	22.8	17.4	12.9	9.7	8.6	8.6
72.5°	30.3	24.9	17.4	12.9	9.7	7.6	6.5	6.5
75°	21.7	17.4	12.9	8.6	6.5	5.4	4.3	4.3
77.5°	15.1	11.9	8.6	6.5	4.3	3.2	3.2	3.2
80°	9.7	7.6	5.4	4.3	3.2	2.2	2.2	2.2
82.5°	5.4	4.3	3.2	2.2	2.2	1.1	1.1	1.1
85°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	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)