

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: P136607

Luminaire Tested: **LD6A10D010TE ERW6A10940 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136607
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 ERW6A10940 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: 1101.6 lumens
Efficiency: N/A
Efficacy: 78.7 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

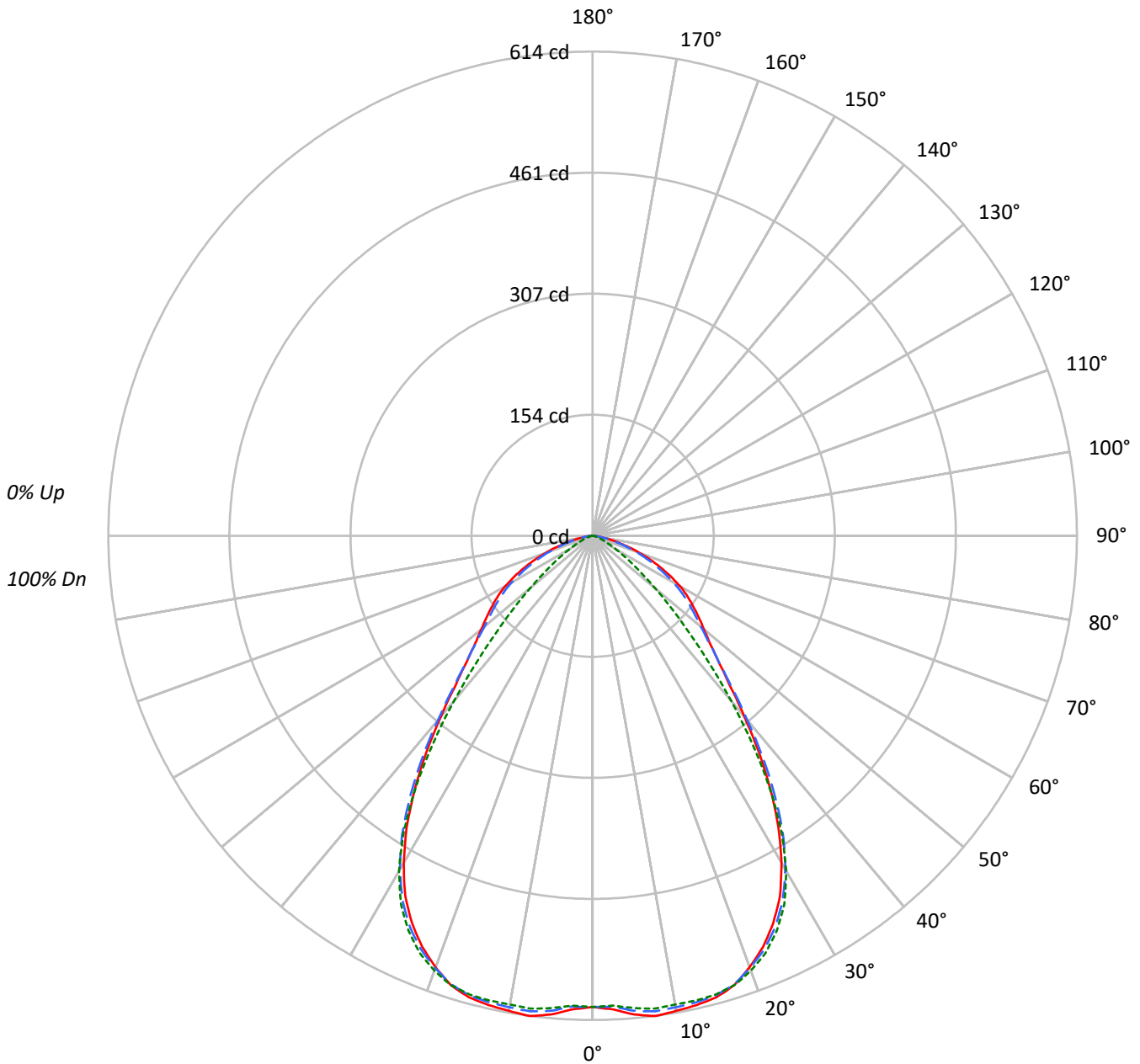
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	38988	38988	38988
5°	39916	39608	39372
10°	40530	40219	39987
15°	40930	40768	40687
20°	40421	40504	40754
25°	39009	39441	39772
30°	36085	36808	36981
35°	31348	32113	31252
40°	25447	25958	23225
45°	20787	20898	15749
50°	18655	18168	10474
55°	17664	16868	6745
60°	16715	15475	4332
65°	14635	13369	2748
70°	11998	10854	1812
75°	8671	7764	1210
80°	5786	4884	902
85°	3593	2695	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	5.2
10°-20°	169.9	15.4
20°-30°	250.1	22.7
30°-40°	246.1	22.3
40°-50°	166.4	15.1
50°-60°	111.9	10.2
60°-70°	68.3	6.2
70°-80°	26.9	2.4
80°-90°	4.2	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°	477.8	43.4
0°-40°	724.0	65.7
0°-60°	1002.3	91.0
0°-90°	1101.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1101.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	610	607	605	604	601	58
15°	606	604	604	604	602	170
25°	542	544	548	553	552	248
35°	394	398	403	397	392	244
45°	225	229	226	187	171	178
55°	155	157	148	83	59	139
65°	95	95	87	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°	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
2.5°	601.2	598.8	600.0	598.8	598.8	596.4	598.8	598.8	597.6	597.6	597.6
5°	609.5	608.3	609.5	607.1	608.3	606.0	607.1	606.0	604.8	604.8	604.8
7.5°	614.2	611.8	613.0	610.7	611.8	609.5	610.7	609.5	608.3	608.3	607.1
10°	611.8	610.7	610.7	609.5	609.5	607.1	609.5	608.3	606.0	607.1	606.0
12.5°	609.5	608.3	609.5	607.1	608.3	604.8	607.1	606.0	604.8	606.0	604.8
15°	606.0	604.8	606.0	603.6	604.8	602.4	604.8	603.6	602.4	603.6	602.4
17.5°	597.6	596.4	597.6	596.4	597.6	594.0	596.4	596.4	595.2	596.4	596.4
20°	582.2	581.0	582.2	581.0	582.2	579.8	582.2	582.2	581.0	583.4	583.4
22.5°	564.4	564.4	564.4	564.4	565.6	563.3	565.6	565.6	565.6	568.0	568.0
25°	541.9	543.1	543.1	543.1	544.3	543.1	545.5	545.5	545.5	547.9	547.9
27.5°	514.6	514.6	515.8	517.0	517.0	515.8	518.2	519.4	519.4	521.7	522.9
30°	479.0	480.2	481.4	482.6	483.8	482.6	485.0	485.0	486.2	488.6	489.8
32.5°	438.7	441.1	441.1	443.5	444.7	443.5	447.1	445.9	447.1	449.5	450.6
35°	393.6	396.0	396.0	398.4	398.4	398.4	400.8	402.0	402.0	403.2	403.2
37.5°	346.3	348.7	347.5	351.0	351.0	349.8	354.5	354.5	353.3	354.5	353.3
40°	298.8	301.2	301.2	303.6	303.6	303.6	307.1	304.8	304.8	304.8	302.4
42.5°	257.3	259.7	259.7	262.1	262.1	262.1	264.4	264.4	262.1	260.9	257.3
45°	225.3	226.5	227.7	228.9	228.9	228.9	231.2	230.1	228.9	226.5	220.6
47.5°	201.6	202.8	202.8	204.0	204.0	204.0	205.2	205.2	202.8	199.2	193.2
50°	183.8	183.8	185.0	185.0	186.2	185.0	186.2	185.0	182.6	179.0	171.9
52.5°	169.6	169.6	169.6	170.7	170.7	170.7	170.7	169.6	167.2	162.5	154.1
55°	155.3	155.3	156.5	156.5	157.7	156.5	156.5	155.3	151.7	148.3	138.7
57.5°	142.3	142.3	142.3	143.5	143.5	143.5	142.3	141.1	138.7	134.0	124.5
60°	128.1	128.1	128.1	128.1	129.3	128.1	128.1	125.7	123.3	118.6	110.3
62.5°	111.4	111.4	111.4	112.6	112.6	111.4	111.4	109.1	106.8	102.0	93.6
65°	94.8	94.8	94.8	96.0	96.0	94.8	94.8	92.5	90.1	86.6	78.3
67.5°	79.4	79.4	79.4	79.4	79.4	78.3	78.3	77.1	74.7	71.1	65.2
70°	62.9	62.9	62.9	64.1	62.9	62.9	62.9	61.7	59.3	56.9	50.9
72.5°	48.7	48.7	48.7	48.7	48.7	48.7	47.5	47.5	45.1	42.7	39.1
75°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	33.2	32.0	30.8	27.3
77.5°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	22.5	22.5	21.4	19.0
80°	15.4	15.4	15.4	15.4	15.4	14.2	14.2	14.2	14.2	13.0	11.8
82.5°	9.5	8.3	9.5	8.3	8.3	8.3	8.3	8.3	8.3	8.3	7.2
85°	4.8	4.8	4.8	4.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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°	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
2.5°	597.6	595.2	597.6	598.8	596.4	597.6	598.8	596.4
5°	604.8	601.2	603.6	604.8	601.2	602.4	603.6	601.2
7.5°	608.3	604.8	607.1	607.1	603.6	606.0	607.1	604.8
10°	606.0	603.6	606.0	606.0	603.6	604.8	606.0	603.6
12.5°	604.8	602.4	604.8	606.0	602.4	604.8	606.0	603.6
15°	603.6	601.2	603.6	604.8	601.2	603.6	604.8	602.4
17.5°	596.4	595.2	598.8	598.8	596.4	598.8	600.0	597.6
20°	584.6	583.4	587.0	588.2	585.8	588.2	589.4	587.0
22.5°	569.2	568.0	571.5	572.7	570.4	572.7	573.9	572.7
25°	550.2	549.1	552.5	553.7	551.4	553.7	554.9	552.5
27.5°	524.1	522.9	526.5	526.5	525.3	527.7	528.9	526.5
30°	490.9	488.6	492.1	490.9	489.8	492.1	492.1	490.9
32.5°	449.5	447.1	449.5	447.1	447.1	448.3	448.3	445.9
35°	400.8	399.6	398.4	394.8	394.8	394.8	394.8	392.4
37.5°	349.8	346.3	343.9	337.9	335.5	336.7	335.5	333.2
40°	297.6	291.7	287.0	279.8	276.3	276.3	275.1	272.7
42.5°	251.3	243.1	235.9	226.5	222.9	221.7	219.4	218.2
45°	213.4	202.8	192.1	182.6	176.7	175.5	173.1	170.7
47.5°	183.8	170.7	157.7	147.1	141.1	137.5	135.2	134.0
50°	160.1	145.9	130.4	117.4	111.4	106.8	104.4	103.2
52.5°	141.1	125.7	107.9	94.8	87.8	83.0	80.6	78.3
55°	125.7	107.9	90.1	75.9	68.8	64.1	61.7	59.3
57.5°	110.3	93.6	74.7	60.5	53.3	48.7	46.3	45.1
60°	96.0	79.4	61.7	48.7	41.5	36.7	34.4	33.2
62.5°	81.8	66.4	50.9	39.1	32.0	27.3	24.9	24.9
65°	67.6	54.5	40.3	29.7	23.7	20.2	17.8	17.8
67.5°	55.7	43.9	32.0	23.7	17.8	15.4	13.0	13.0
70°	43.9	35.6	24.9	19.0	14.2	10.6	9.5	9.5
72.5°	33.2	27.3	19.0	14.2	10.6	8.3	7.2	7.2
75°	23.7	19.0	14.2	9.5	7.2	6.0	4.8	4.8
77.5°	16.6	13.0	9.5	7.2	4.8	3.6	3.6	3.6
80°	10.6	8.3	6.0	4.8	3.6	2.4	2.4	2.4
82.5°	6.0	4.8	3.6	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)