

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: P136601

Luminaire Tested: **LD6A10D010TE ERW6A10830 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136601
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 ERW6A10830 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 3000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1146.0 lumens
Efficiency: N/A
Efficacy: 81.9 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

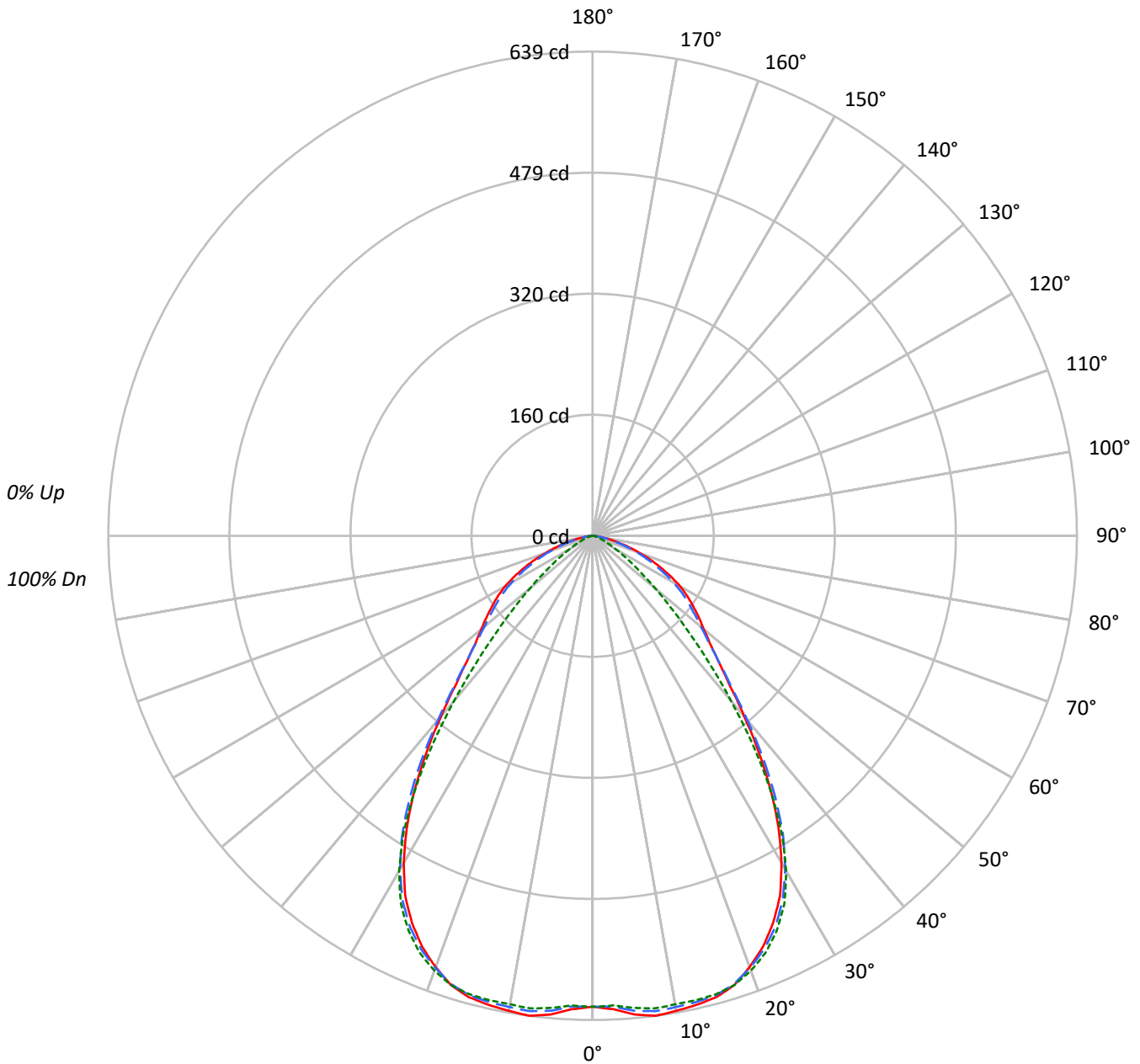
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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								
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°	40560	40560	40560
5°	41527	41200	40957
10°	42166	41842	41597
15°	42579	42410	42329
20°	42052	42136	42393
25°	40578	41024	41377
30°	37546	38284	38473
35°	32614	33403	32519
40°	26478	26997	24161
45°	21627	21737	16386
50°	19406	18909	10891
55°	18381	17539	7018
60°	17380	16101	4502
65°	15237	13909	2856
70°	12475	11292	1888
75°	9024	8091	1235
80°	6011	5110	939
85°	3668	2770	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	5.2
10°-20°	176.8	15.4
20°-30°	260.2	22.7
30°-40°	256.0	22.3
40°-50°	173.1	15.1
50°-60°	116.4	10.2
60°-70°	71.0	6.2
70°-80°	28.0	2.4
80°-90°	4.3	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°	497.1	43.4
0°-40°	753.1	65.7
0°-60°	1042.6	91.0
0°-90°	1146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	634	632	629	628	625	61
15°	630	628	628	628	627	177
25°	564	566	570	575	575	258
35°	410	414	419	413	408	254
45°	234	238	236	195	178	185
55°	162	163	154	86	62	145
65°	99	99	90	36	18	98
75°	36	36	32	12	5	40
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°	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7
2.5°	625.4	622.9	624.2	622.9	622.9	620.5	622.9	622.9	621.7	621.7	621.7
5°	634.1	632.8	634.1	631.6	632.8	630.4	631.6	630.4	629.1	629.1	629.1
7.5°	639.0	636.5	637.8	635.3	636.5	634.1	635.3	634.1	632.8	632.8	631.6
10°	636.5	635.3	635.3	634.1	634.1	631.6	634.1	632.8	630.4	631.6	630.4
12.5°	634.1	632.8	634.1	631.6	632.8	629.1	631.6	630.4	629.1	630.4	629.1
15°	630.4	629.1	630.4	627.9	629.1	626.7	629.1	627.9	626.7	627.9	626.7
17.5°	621.7	620.5	621.7	620.5	621.7	618.0	620.5	620.5	619.2	620.5	620.5
20°	605.7	604.4	605.7	604.4	605.7	603.2	605.7	605.7	604.4	606.9	606.9
22.5°	587.2	587.2	587.2	587.2	588.4	585.9	588.4	588.4	588.4	590.9	590.9
25°	563.7	565.0	565.0	565.0	566.2	565.0	567.4	567.4	567.4	569.9	569.9
27.5°	535.4	535.4	536.6	537.8	537.8	536.6	539.1	540.3	540.3	542.8	544.0
30°	498.4	499.6	500.8	502.1	503.3	502.1	504.5	504.5	505.8	508.2	509.5
32.5°	456.4	458.9	458.9	461.4	462.6	461.4	465.1	463.8	465.1	467.5	468.8
35°	409.5	412.0	412.0	414.5	414.5	414.5	416.9	418.2	418.2	419.4	419.4
37.5°	360.2	362.7	361.4	365.1	365.1	363.9	368.8	368.8	367.6	368.8	367.6
40°	310.9	313.3	313.3	315.8	315.8	315.8	319.5	317.0	317.0	317.0	314.6
42.5°	267.7	270.2	270.2	272.6	272.6	272.6	275.1	275.1	272.6	271.4	267.7
45°	234.4	235.6	236.8	238.1	238.1	238.1	240.5	239.3	238.1	235.6	229.4
47.5°	209.7	210.9	210.9	212.2	212.2	212.2	213.4	213.4	210.9	207.2	201.1
50°	191.2	191.2	192.4	192.4	193.7	192.4	193.7	192.4	190.0	186.3	178.9
52.5°	176.4	176.4	176.4	177.6	177.6	177.6	177.6	176.4	173.9	169.0	160.4
55°	161.6	161.6	162.8	162.8	164.1	162.8	162.8	161.6	157.9	154.2	144.3
57.5°	148.0	148.0	148.0	149.3	149.3	149.3	148.0	146.8	144.3	139.4	129.5
60°	133.2	133.2	133.2	133.2	134.5	133.2	133.2	130.8	128.3	123.4	114.7
62.5°	116.0	116.0	116.0	117.2	117.2	116.0	116.0	113.5	111.0	106.1	97.5
65°	98.7	98.7	98.7	99.9	99.9	98.7	98.7	96.2	93.8	90.1	81.4
67.5°	82.6	82.6	82.6	82.6	82.6	81.4	81.4	80.2	77.7	74.0	67.8
70°	65.4	65.4	65.4	66.6	65.4	65.4	65.4	64.1	61.7	59.2	53.0
72.5°	50.6	50.6	50.6	50.6	50.6	50.6	49.3	49.3	46.9	44.4	40.7
75°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	34.5	33.3	32.1	28.4
77.5°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	23.4	23.4	22.2	19.7
80°	16.0	16.0	16.0	16.0	16.0	14.8	14.8	14.8	14.8	13.6	12.3
82.5°	9.9	8.6	9.9	8.6	8.6	8.6	8.6	8.6	8.6	8.6	7.4
85°	4.9	4.9	4.9	4.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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°	621.7	621.7	621.7	621.7	621.7	621.7	621.7	621.7
2.5°	621.7	619.2	621.7	622.9	620.5	621.7	622.9	620.5
5°	629.1	625.4	627.9	629.1	625.4	626.7	627.9	625.4
7.5°	632.8	629.1	631.6	631.6	627.9	630.4	631.6	629.1
10°	630.4	627.9	630.4	630.4	627.9	629.1	630.4	627.9
12.5°	629.1	626.7	629.1	630.4	626.7	629.1	630.4	627.9
15°	627.9	625.4	627.9	629.1	625.4	627.9	629.1	626.7
17.5°	620.5	619.2	622.9	622.9	620.5	622.9	624.2	621.7
20°	608.1	606.9	610.6	611.8	609.4	611.8	613.1	610.6
22.5°	592.1	590.9	594.6	595.8	593.3	595.8	597.0	595.8
25°	572.4	571.1	574.8	576.1	573.6	576.1	577.3	574.8
27.5°	545.2	544.0	547.7	547.7	546.5	548.9	550.2	547.7
30°	510.7	508.2	511.9	510.7	509.5	511.9	511.9	510.7
32.5°	467.5	465.1	467.5	465.1	465.1	466.3	466.3	463.8
35°	416.9	415.7	414.5	410.8	410.8	410.8	410.8	408.3
37.5°	363.9	360.2	357.7	351.6	349.1	350.3	349.1	346.6
40°	309.6	303.5	298.5	291.1	287.4	287.4	286.2	283.7
42.5°	261.5	252.9	245.5	235.6	231.9	230.7	228.2	227.0
45°	222.0	210.9	199.8	190.0	183.8	182.6	180.1	177.6
47.5°	191.2	177.6	164.1	153.0	146.8	143.1	140.6	139.4
50°	166.5	151.7	135.7	122.1	116.0	111.0	108.6	107.3
52.5°	146.8	130.8	112.3	98.7	91.3	86.3	83.9	81.4
55°	130.8	112.3	93.8	78.9	71.5	66.6	64.1	61.7
57.5°	114.7	97.5	77.7	62.9	55.5	50.6	48.1	46.9
60°	99.9	82.6	64.1	50.6	43.2	38.2	35.8	34.5
62.5°	85.1	69.1	53.0	40.7	33.3	28.4	25.9	25.9
65°	70.3	56.7	41.9	30.8	24.7	21.0	18.5	18.5
67.5°	58.0	45.6	33.3	24.7	18.5	16.0	13.6	13.6
70°	45.6	37.0	25.9	19.7	14.8	11.1	9.9	9.9
72.5°	34.5	28.4	19.7	14.8	11.1	8.6	7.4	7.4
75°	24.7	19.7	14.8	9.9	7.4	6.2	4.9	4.9
77.5°	17.3	13.6	9.9	7.4	4.9	3.7	3.7	3.7
80°	11.1	8.6	6.2	4.9	3.7	2.5	2.5	2.5
82.5°	6.2	4.9	3.7	2.5	2.5	1.2	1.2	1.2
85°	2.5	2.5	2.5	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)