

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: P136632

Luminaire Tested: **LD6A15D010TE ERW6A15827 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136632
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: LD6A15D010TE ERW6A15827 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: 1594.0 lumens
Efficiency: N/A
Efficacy: 70.5 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

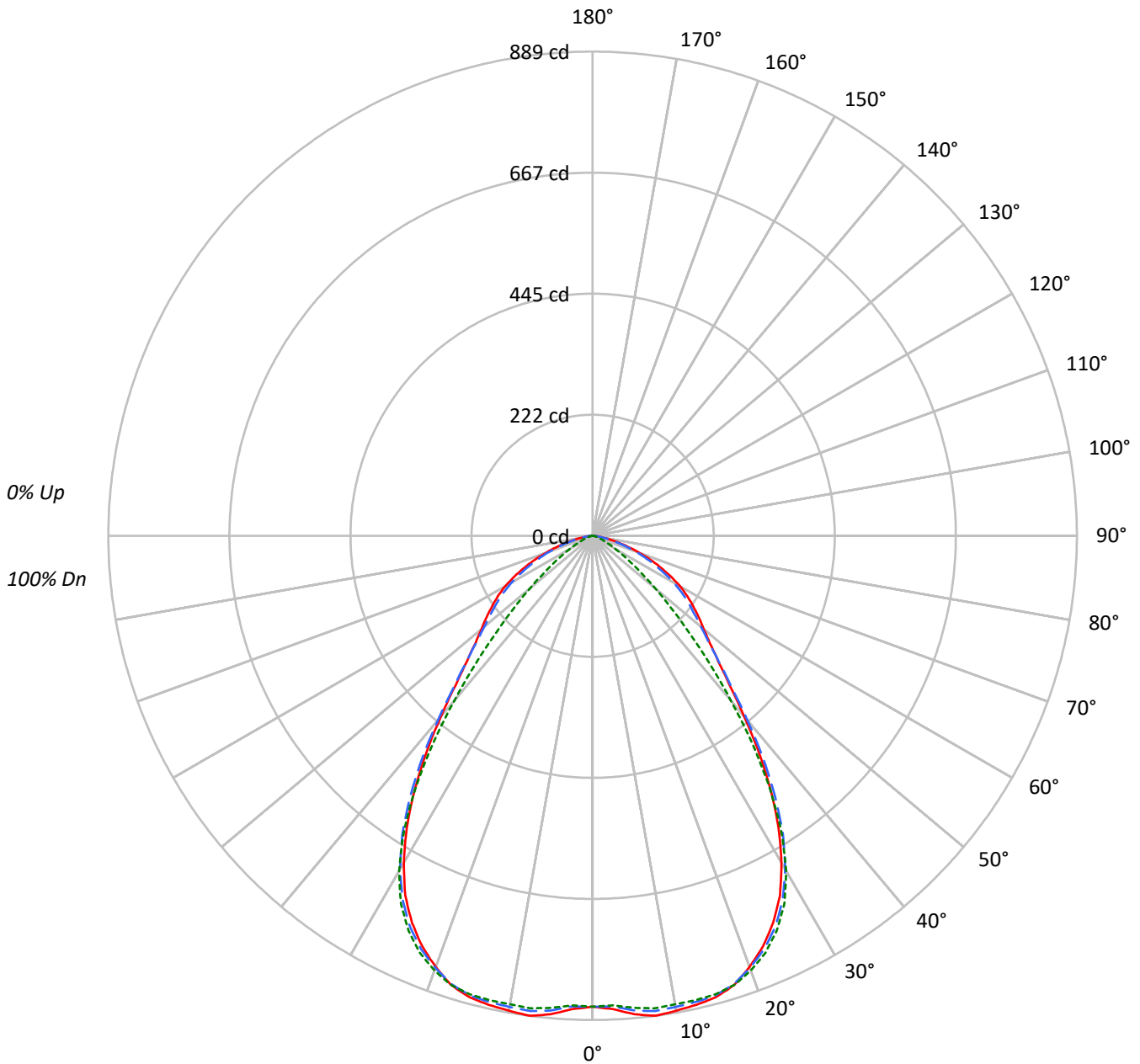
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	56420	56420	56420
5°	57755	57310	56970
10°	58655	58198	57854
15°	59221	58984	58870
20°	58493	58611	58965
25°	56443	57063	57559
30°	52221	53253	53509
35°	45365	46464	45230
40°	36826	37558	33606
45°	30078	30235	22798
50°	26988	26298	15153
55°	25570	24398	9759
60°	24178	22391	6263
65°	21195	19343	3967
70°	17339	15718	2613
75°	12553	11242	1739
80°	8378	7101	1277
85°	5165	3818	1273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	5.2
10°-20°	245.9	15.4
20°-30°	361.9	22.7
30°-40°	356.1	22.3
40°-50°	240.8	15.1
50°-60°	161.9	10.2
60°-70°	98.8	6.2
70°-80°	38.9	2.4
80°-90°	6.0	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°	691.4	43.4
0°-40°	1047.6	65.7
0°-60°	1450.3	91.0
0°-90°	1594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	882	878	875	874	870	84
15°	877	873	873	874	872	247
25°	784	787	793	800	800	358
35°	570	576	583	574	568	353
45°	326	331	328	271	247	258
55°	225	227	214	120	86	202
65°	137	138	125	51	26	136
75°	50	50	45	17	7	56
85°	7	5	5	3	2	9
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°	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8
2.5°	869.9	866.5	868.2	866.5	866.5	863.0	866.5	866.5	864.8	864.8	864.8
5°	881.9	880.2	881.9	878.5	880.2	876.8	878.5	876.8	875.1	875.1	875.1
7.5°	888.8	885.4	887.1	883.6	885.4	881.9	883.6	881.9	880.2	880.2	878.5
10°	885.4	883.6	883.6	881.9	881.9	878.5	881.9	880.2	876.8	878.5	876.8
12.5°	881.9	880.2	881.9	878.5	880.2	875.1	878.5	876.8	875.1	876.8	875.1
15°	876.8	875.1	876.8	873.3	875.1	871.6	875.1	873.3	871.6	873.3	871.6
17.5°	864.8	863.0	864.8	863.0	864.8	859.6	863.0	863.0	861.3	863.0	863.0
20°	842.5	840.7	842.5	840.7	842.5	839.0	842.5	842.5	840.7	844.2	844.2
22.5°	816.7	816.7	816.7	816.7	818.4	815.0	818.4	818.4	818.4	821.9	821.9
25°	784.1	785.8	785.8	785.8	787.5	785.8	789.3	789.3	789.3	792.7	792.7
27.5°	744.7	744.7	746.4	748.1	748.1	746.4	749.8	751.5	751.5	754.9	756.7
30°	693.2	694.9	696.6	698.3	700.0	698.3	701.8	701.8	703.5	706.9	708.6
32.5°	634.8	638.3	638.3	641.7	643.4	641.7	646.9	645.1	646.9	650.3	652.0
35°	569.6	573.1	573.1	576.5	576.5	576.5	579.9	581.7	581.7	583.4	583.4
37.5°	501.0	504.4	502.7	507.9	507.9	506.2	513.0	513.0	511.3	513.0	511.3
40°	432.4	435.8	435.8	439.2	439.2	439.2	444.4	441.0	441.0	441.0	437.5
42.5°	372.3	375.8	375.8	379.2	379.2	379.2	382.6	382.6	379.2	377.5	372.3
45°	326.0	327.7	329.4	331.1	331.1	331.1	334.6	332.9	331.1	327.7	319.1
47.5°	291.7	293.4	293.4	295.1	295.1	295.1	296.8	296.8	293.4	288.3	279.7
50°	265.9	265.9	267.7	267.7	269.4	267.7	269.4	267.7	264.2	259.1	248.8
52.5°	245.4	245.4	245.4	247.1	247.1	247.1	247.1	245.4	241.9	235.1	223.1
55°	224.8	224.8	226.5	226.5	228.2	226.5	226.5	224.8	219.6	214.5	200.7
57.5°	205.9	205.9	205.9	207.6	207.6	207.6	205.9	204.2	200.7	193.9	180.2
60°	185.3	185.3	185.3	185.3	187.0	185.3	185.3	181.9	178.4	171.6	159.6
62.5°	161.3	161.3	161.3	163.0	163.0	161.3	161.3	157.9	154.4	147.6	135.5
65°	137.3	137.3	137.3	139.0	139.0	137.3	137.3	133.8	130.4	125.3	113.2
67.5°	115.0	115.0	115.0	115.0	115.0	113.2	113.2	111.5	108.1	102.9	94.4
70°	90.9	90.9	90.9	92.7	90.9	90.9	90.9	89.2	85.8	82.4	73.8
72.5°	70.3	70.3	70.3	70.3	70.3	70.3	68.6	68.6	65.2	61.8	56.6
75°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	48.0	46.3	44.6	39.5
77.5°	34.3	34.3	34.3	34.3	34.3	34.3	34.3	32.6	32.6	30.9	27.5
80°	22.3	22.3	22.3	22.3	22.3	20.6	20.6	20.6	20.6	18.9	17.2
82.5°	13.7	12.0	13.7	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.3
85°	6.9	6.9	6.9	6.9	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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°	864.8	864.8	864.8	864.8	864.8	864.8	864.8	864.8
2.5°	864.8	861.3	864.8	866.5	863.0	864.8	866.5	863.0
5°	875.1	869.9	873.3	875.1	869.9	871.6	873.3	869.9
7.5°	880.2	875.1	878.5	878.5	873.3	876.8	878.5	875.1
10°	876.8	873.3	876.8	876.8	873.3	875.1	876.8	873.3
12.5°	875.1	871.6	875.1	876.8	871.6	875.1	876.8	873.3
15°	873.3	869.9	873.3	875.1	869.9	873.3	875.1	871.6
17.5°	863.0	861.3	866.5	866.5	863.0	866.5	868.2	864.8
20°	845.9	844.2	849.3	851.0	847.6	851.0	852.7	849.3
22.5°	823.6	821.9	827.0	828.7	825.3	828.7	830.4	828.7
25°	796.1	794.4	799.6	801.3	797.8	801.3	803.0	799.6
27.5°	758.4	756.7	761.8	761.8	760.1	763.5	765.2	761.8
30°	710.3	706.9	712.1	710.3	708.6	712.1	712.1	710.3
32.5°	650.3	646.9	650.3	646.9	646.9	648.6	648.6	645.1
35°	579.9	578.2	576.5	571.4	571.4	571.4	571.4	567.9
37.5°	506.2	501.0	497.6	489.0	485.6	487.3	485.6	482.1
40°	430.7	422.1	415.2	404.9	399.8	399.8	398.1	394.6
42.5°	363.7	351.7	341.4	327.7	322.6	320.9	317.4	315.7
45°	308.8	293.4	278.0	264.2	255.7	253.9	250.5	247.1
47.5°	265.9	247.1	228.2	212.8	204.2	199.0	195.6	193.9
50°	231.6	211.0	188.7	169.9	161.3	154.4	151.0	149.3
52.5°	204.2	181.9	156.1	137.3	127.0	120.1	116.7	113.2
55°	181.9	156.1	130.4	109.8	99.5	92.7	89.2	85.8
57.5°	159.6	135.5	108.1	87.5	77.2	70.3	66.9	65.2
60°	139.0	115.0	89.2	70.3	60.1	53.2	49.8	48.0
62.5°	118.4	96.1	73.8	56.6	46.3	39.5	36.0	36.0
65°	97.8	78.9	58.3	42.9	34.3	29.2	25.7	25.7
67.5°	80.6	63.5	46.3	34.3	25.7	22.3	18.9	18.9
70°	63.5	51.5	36.0	27.5	20.6	15.4	13.7	13.7
72.5°	48.0	39.5	27.5	20.6	15.4	12.0	10.3	10.3
75°	34.3	27.5	20.6	13.7	10.3	8.6	6.9	6.9
77.5°	24.0	18.9	13.7	10.3	6.9	5.1	5.1	5.1
80°	15.4	12.0	8.6	6.9	5.1	3.4	3.4	3.4
82.5°	8.6	6.9	5.1	3.4	3.4	1.7	1.7	1.7
85°	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	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)