

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: P136637

Luminaire Tested: **LD6A15D010TE ERW6A15930 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136637
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 ERW6A15930 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: 1537.2 lumens
Efficiency: N/A
Efficacy: 68.0 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

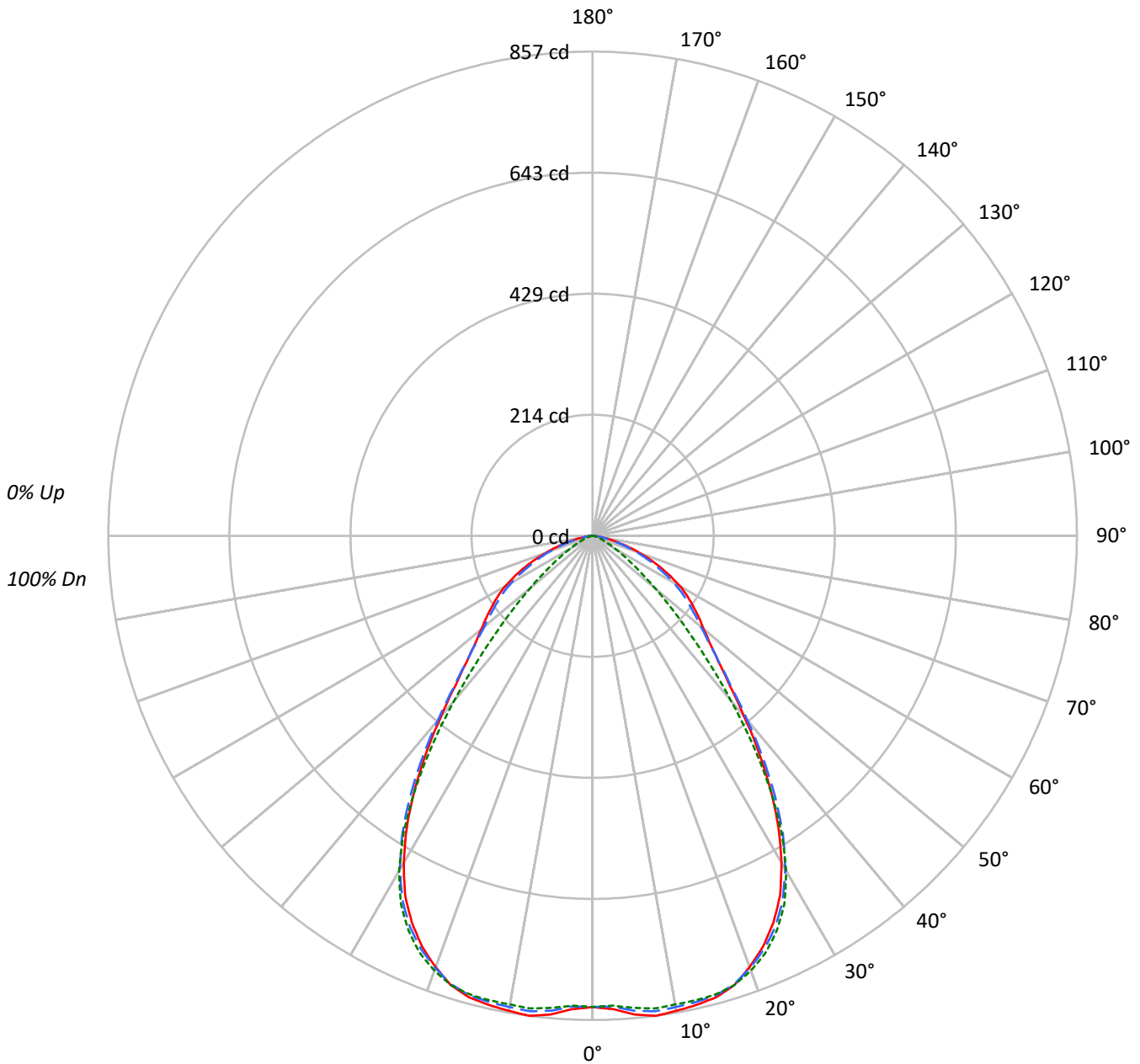
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	54404	54404	54404
5°	55699	55260	54933
10°	56562	56118	55793
15°	57107	56884	56769
20°	56403	56521	56861
25°	54428	55025	55508
30°	50360	51355	51603
35°	43749	44800	43613
40°	35506	36212	32414
45°	28999	29155	21987
50°	26034	25364	14615
55°	24648	23534	9407
60°	23317	21595	6041
65°	20423	18633	3828
70°	16729	15146	2537
75°	12099	10839	1664
80°	8115	6838	1240
85°	4940	3743	1273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	5.2
10°-20°	237.1	15.4
20°-30°	349.0	22.7
30°-40°	343.4	22.3
40°-50°	232.2	15.1
50°-60°	156.1	10.2
60°-70°	95.3	6.2
70°-80°	37.6	2.4
80°-90°	5.8	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°	666.8	43.4
0°-40°	1010.2	65.7
0°-60°	1398.5	91.0
0°-90°	1537.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1537.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	834	834	834	834	834	
5°	850	847	844	843	839	81
15°	846	842	842	843	840	238
25°	756	759	764	772	771	345
35°	549	556	562	553	548	340
45°	314	319	316	261	238	248
55°	217	219	207	116	83	194
65°	132	133	121	49	25	131
75°	48	48	43	17	7	54
85°	7	5	5	2	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°	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9
2.5°	838.8	835.5	837.2	835.5	835.5	832.3	835.5	835.5	833.9	833.9	833.9
5°	850.5	848.8	850.5	847.1	848.8	845.5	847.1	845.5	843.8	843.8	843.8
7.5°	857.1	853.8	855.4	852.1	853.8	850.5	852.1	850.5	848.8	848.8	847.1
10°	853.8	852.1	852.1	850.5	850.5	847.1	850.5	848.8	845.5	847.1	845.5
12.5°	850.5	848.8	850.5	847.1	848.8	843.8	847.1	845.5	843.8	845.5	843.8
15°	845.5	843.8	845.5	842.2	843.8	840.5	843.8	842.2	840.5	842.2	840.5
17.5°	833.9	832.3	833.9	832.3	833.9	829.0	832.3	832.3	830.6	832.3	832.3
20°	812.4	810.8	812.4	810.8	812.4	809.1	812.4	812.4	810.8	814.1	814.1
22.5°	787.5	787.5	787.5	787.5	789.2	785.9	789.2	789.2	789.2	792.5	792.5
25°	756.1	757.8	757.8	757.8	759.5	757.8	761.1	761.1	761.1	764.4	764.4
27.5°	718.1	718.1	719.8	721.4	721.4	719.8	723.1	724.7	724.7	728.1	729.7
30°	668.5	670.1	671.8	673.4	675.1	673.4	676.8	676.8	678.4	681.7	683.4
32.5°	612.2	615.5	615.5	618.8	620.5	618.8	623.8	622.1	623.8	627.1	628.8
35°	549.3	552.6	552.6	555.9	555.9	555.9	559.2	560.9	560.9	562.5	562.5
37.5°	483.2	486.5	484.8	489.8	489.8	488.1	494.8	494.8	493.1	494.8	493.1
40°	416.9	420.3	420.3	423.6	423.6	423.6	428.5	425.2	425.2	425.2	421.9
42.5°	359.0	362.3	362.3	365.6	365.6	365.6	369.0	369.0	365.6	364.0	359.0
45°	314.3	316.0	317.7	319.3	319.3	319.3	322.6	321.0	319.3	316.0	307.8
47.5°	281.3	282.9	282.9	284.6	284.6	284.6	286.2	286.2	282.9	278.0	269.7
50°	256.5	256.5	258.2	258.2	259.8	258.2	259.8	258.2	254.8	249.9	239.9
52.5°	236.6	236.6	236.6	238.3	238.3	238.3	238.3	236.6	233.3	226.7	215.1
55°	216.7	216.7	218.4	218.4	220.0	218.4	218.4	216.7	211.8	206.9	193.6
57.5°	198.6	198.6	198.6	200.2	200.2	200.2	198.6	196.9	193.6	187.0	173.7
60°	178.7	178.7	178.7	178.7	180.3	178.7	178.7	175.4	172.0	165.5	153.9
62.5°	155.6	155.6	155.6	157.2	157.2	155.6	155.6	152.2	148.9	142.3	130.7
65°	132.3	132.3	132.3	134.0	134.0	132.3	132.3	129.0	125.7	120.7	109.2
67.5°	110.9	110.9	110.9	110.9	110.9	109.2	109.2	107.6	104.3	99.3	91.0
70°	87.7	87.7	87.7	89.3	87.7	87.7	87.7	86.0	82.7	79.4	71.2
72.5°	67.9	67.9	67.9	67.9	67.9	67.9	66.2	66.2	62.9	59.6	54.6
75°	48.0	48.0	48.0	48.0	48.0	48.0	48.0	46.3	44.7	43.0	38.0
77.5°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	31.4	31.4	29.7	26.4
80°	21.6	21.6	21.6	21.6	21.6	19.9	19.9	19.9	19.9	18.2	16.6
82.5°	13.3	11.6	13.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6	9.9
85°	6.6	6.6	6.6	6.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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°	833.9	833.9	833.9	833.9	833.9	833.9	833.9	833.9
2.5°	833.9	830.6	833.9	835.5	832.3	833.9	835.5	832.3
5°	843.8	838.8	842.2	843.8	838.8	840.5	842.2	838.8
7.5°	848.8	843.8	847.1	847.1	842.2	845.5	847.1	843.8
10°	845.5	842.2	845.5	845.5	842.2	843.8	845.5	842.2
12.5°	843.8	840.5	843.8	845.5	840.5	843.8	845.5	842.2
15°	842.2	838.8	842.2	843.8	838.8	842.2	843.8	840.5
17.5°	832.3	830.6	835.5	835.5	832.3	835.5	837.2	833.9
20°	815.7	814.1	819.0	820.7	817.4	820.7	822.4	819.0
22.5°	794.2	792.5	797.5	799.2	795.8	799.2	800.8	799.2
25°	767.7	766.1	771.1	772.7	769.4	772.7	774.4	771.1
27.5°	731.4	729.7	734.7	734.7	733.0	736.3	738.0	734.7
30°	685.0	681.7	686.7	685.0	683.4	686.7	686.7	685.0
32.5°	627.1	623.8	627.1	623.8	623.8	625.5	625.5	622.1
35°	559.2	557.6	555.9	550.9	550.9	550.9	550.9	547.6
37.5°	488.1	483.2	479.8	471.6	468.2	469.9	468.2	464.9
40°	415.3	407.0	400.5	390.5	385.5	385.5	383.9	380.6
42.5°	350.8	339.2	329.3	316.0	311.0	309.5	306.1	304.5
45°	297.9	282.9	268.0	254.8	246.6	244.9	241.6	238.3
47.5°	256.5	238.3	220.0	205.2	196.9	191.9	188.6	187.0
50°	223.3	203.5	182.0	163.8	155.6	148.9	145.6	144.0
52.5°	196.9	175.4	150.6	132.3	122.4	115.9	112.5	109.2
55°	175.4	150.6	125.7	105.9	96.0	89.3	86.0	82.7
57.5°	153.9	130.7	104.3	84.4	74.4	67.9	64.6	62.9
60°	134.0	110.9	86.0	67.9	57.9	51.3	48.0	46.3
62.5°	114.2	92.7	71.2	54.6	44.7	38.0	34.7	34.7
65°	94.3	76.1	56.3	41.4	33.1	28.1	24.8	24.8
67.5°	77.7	61.2	44.7	33.1	24.8	21.6	18.2	18.2
70°	61.2	49.6	34.7	26.4	19.9	14.9	13.3	13.3
72.5°	46.3	38.0	26.4	19.9	14.9	11.6	9.9	9.9
75°	33.1	26.4	19.9	13.3	9.9	8.3	6.6	6.6
77.5°	23.2	18.2	13.3	9.9	6.6	5.0	5.0	5.0
80°	14.9	11.6	8.3	6.6	5.0	3.3	3.3	3.3
82.5°	8.3	6.6	5.0	3.3	3.3	1.7	1.7	1.7
85°	3.3	3.3	3.3	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)