

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: P136639

Luminaire Tested: **LD6A15D010TE ERW6A15940 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136639
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 ERW6A15940 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: 1609.0 lumens
Efficiency: N/A
Efficacy: 71.2 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

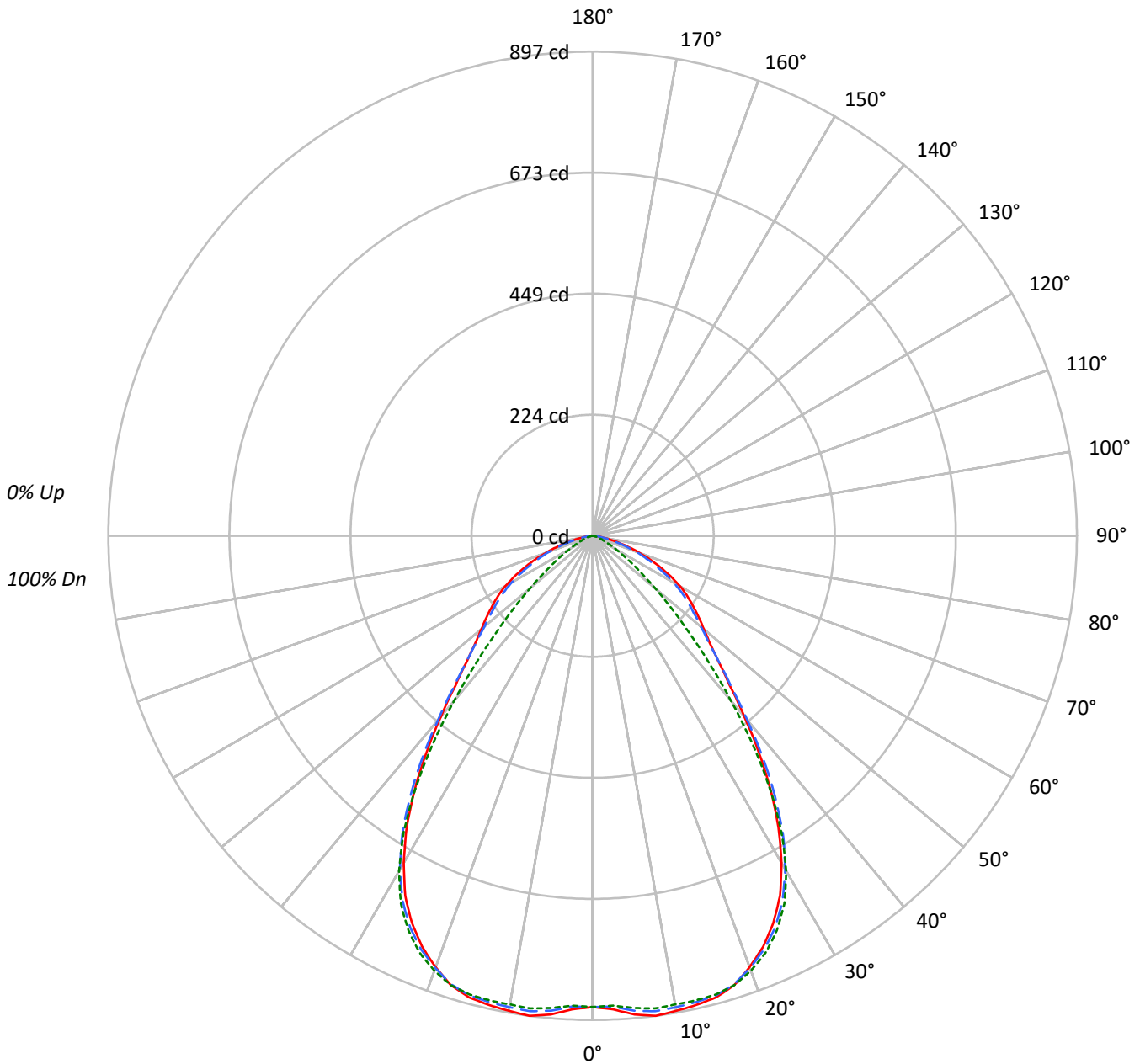
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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				100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61				61
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55				55
6	77	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50				50
7	72	61	53	48	71	60	53	48	58	52	47	57	51	47	56	51	47	45				45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41				41
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56949	56949	56949
5°	58299	57841	57507
10°	59198	58741	58403
15°	59775	59545	59424
20°	59041	59159	59520
25°	56976	57602	58099
30°	52711	53758	54014
35°	45795	46902	45652
40°	37175	37907	33921
45°	30364	30521	23011
50°	27252	26551	15296
55°	25797	24625	9850
60°	24413	22586	6328
65°	21381	19528	4014
70°	17511	15870	2632
75°	12654	11343	1739
80°	8453	7176	1315
85°	5165	3892	1273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	5.2
10°-20°	248.2	15.4
20°-30°	365.3	22.7
30°-40°	359.5	22.3
40°-50°	243.1	15.1
50°-60°	163.4	10.2
60°-70°	99.7	6.2
70°-80°	39.3	2.4
80°-90°	6.1	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°	697.9	43.4
0°-40°	1057.4	65.7
0°-60°	1463.9	91.0
0°-90°	1609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	890	887	883	882	878	85
15°	885	882	882	882	880	249
25°	792	794	800	808	807	362
35°	575	582	589	579	573	356
45°	329	334	331	274	249	260
55°	227	229	216	121	87	203
65°	138	139	126	51	26	138
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°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	878.1	874.6	876.3	874.6	874.6	871.2	874.6	874.6	872.9	872.9	872.9
5°	890.2	888.5	890.2	886.7	888.5	885.0	886.7	885.0	883.2	883.2	883.2
7.5°	897.1	893.6	895.4	891.9	893.6	890.2	891.9	890.2	888.5	888.5	886.7
10°	893.6	891.9	891.9	890.2	890.2	886.7	890.2	888.5	885.0	886.7	885.0
12.5°	890.2	888.5	890.2	886.7	888.5	883.2	886.7	885.0	883.2	885.0	883.2
15°	885.0	883.2	885.0	881.6	883.2	879.8	883.2	881.6	879.8	881.6	879.8
17.5°	872.9	871.2	872.9	871.2	872.9	867.7	871.2	871.2	869.4	871.2	871.2
20°	850.4	848.6	850.4	848.6	850.4	847.0	850.4	850.4	848.6	852.1	852.1
22.5°	824.4	824.4	824.4	824.4	826.1	822.6	826.1	826.1	826.1	829.6	829.6
25°	791.5	793.3	793.3	793.3	794.9	793.3	796.7	796.7	796.7	800.2	800.2
27.5°	751.6	751.6	753.4	755.1	755.1	753.4	756.9	758.6	758.6	762.0	763.8
30°	699.7	701.4	703.2	704.9	706.6	704.9	708.3	708.3	710.1	713.6	715.2
32.5°	640.8	644.2	644.2	647.7	649.5	647.7	652.9	651.2	652.9	656.4	658.1
35°	575.0	578.5	578.5	581.9	581.9	581.9	585.4	587.1	587.1	588.9	588.9
37.5°	505.7	509.2	507.5	512.6	512.6	510.9	517.9	517.9	516.1	517.9	516.1
40°	436.5	439.9	439.9	443.4	443.4	443.4	448.5	445.1	445.1	445.1	441.6
42.5°	375.9	379.3	379.3	382.8	382.8	382.8	386.2	386.2	382.8	381.0	375.9
45°	329.1	330.8	332.6	334.2	334.2	334.2	337.7	336.0	334.2	330.8	322.2
47.5°	294.4	296.2	296.2	297.9	297.9	297.9	299.6	299.6	296.2	290.9	282.3
50°	268.5	268.5	270.2	270.2	271.9	270.2	271.9	270.2	266.7	261.6	251.2
52.5°	247.7	247.7	247.7	249.4	249.4	249.4	249.4	247.7	244.2	237.2	225.2
55°	226.8	226.8	228.6	228.6	230.3	228.6	228.6	226.8	221.7	216.5	202.6
57.5°	207.9	207.9	207.9	209.5	209.5	209.5	207.9	206.1	202.6	195.7	181.9
60°	187.1	187.1	187.1	187.1	188.8	187.1	187.1	183.6	180.1	173.1	161.1
62.5°	162.8	162.8	162.8	164.5	164.5	162.8	162.8	159.3	155.8	148.9	136.9
65°	138.5	138.5	138.5	140.3	140.3	138.5	138.5	135.1	131.6	126.5	114.3
67.5°	116.0	116.0	116.0	116.0	116.0	114.3	114.3	112.5	109.1	103.9	95.2
70°	91.8	91.8	91.8	93.5	91.8	91.8	91.8	90.1	86.6	83.2	74.5
72.5°	71.0	71.0	71.0	71.0	71.0	71.0	69.3	69.3	65.9	62.4	57.2
75°	50.2	50.2	50.2	50.2	50.2	50.2	50.2	48.5	46.8	45.0	39.9
77.5°	34.6	34.6	34.6	34.6	34.6	34.6	34.6	32.9	32.9	31.1	27.7
80°	22.5	22.5	22.5	22.5	22.5	20.8	20.8	20.8	20.8	19.1	17.3
82.5°	13.8	12.2	13.8	12.2	12.2	12.2	12.2	12.2	12.2	12.2	10.4
85°	6.9	6.9	6.9	6.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	872.9	869.4	872.9	874.6	871.2	872.9	874.6	871.2
5°	883.2	878.1	881.6	883.2	878.1	879.8	881.6	878.1
7.5°	888.5	883.2	886.7	886.7	881.6	885.0	886.7	883.2
10°	885.0	881.6	885.0	885.0	881.6	883.2	885.0	881.6
12.5°	883.2	879.8	883.2	885.0	879.8	883.2	885.0	881.6
15°	881.6	878.1	881.6	883.2	878.1	881.6	883.2	879.8
17.5°	871.2	869.4	874.6	874.6	871.2	874.6	876.3	872.9
20°	853.9	852.1	857.3	859.0	855.6	859.0	860.8	857.3
22.5°	831.3	829.6	834.8	836.5	833.0	836.5	838.3	836.5
25°	803.6	801.9	807.1	808.8	805.3	808.8	810.6	807.1
27.5°	765.5	763.8	768.9	768.9	767.3	770.7	772.4	768.9
30°	717.0	713.6	718.7	717.0	715.2	718.7	718.7	717.0
32.5°	656.4	652.9	656.4	652.9	652.9	654.6	654.6	651.2
35°	585.4	583.6	581.9	576.7	576.7	576.7	576.7	573.2
37.5°	510.9	505.7	502.2	493.6	490.2	491.9	490.2	486.7
40°	434.7	426.1	419.1	408.7	403.6	403.6	401.8	398.3
42.5°	367.2	355.0	344.6	330.8	325.6	323.9	320.4	318.7
45°	311.8	296.2	280.5	266.7	258.1	256.3	252.9	249.4
47.5°	268.5	249.4	230.3	214.8	206.1	200.9	197.5	195.7
50°	233.8	213.0	190.6	171.5	162.8	155.8	152.4	150.7
52.5°	206.1	183.6	157.6	138.5	128.2	121.2	117.8	114.3
55°	183.6	157.6	131.6	110.9	100.5	93.5	90.1	86.6
57.5°	161.1	136.9	109.1	88.3	77.9	71.0	67.5	65.9
60°	140.3	116.0	90.1	71.0	60.6	53.7	50.2	48.5
62.5°	119.5	97.0	74.5	57.2	46.8	39.9	36.4	36.4
65°	98.7	79.7	58.9	43.3	34.6	29.5	26.0	26.0
67.5°	81.4	64.1	46.8	34.6	26.0	22.5	19.1	19.1
70°	64.1	51.9	36.4	27.7	20.8	15.6	13.8	13.8
72.5°	48.5	39.9	27.7	20.8	15.6	12.2	10.4	10.4
75°	34.6	27.7	20.8	13.8	10.4	8.7	6.9	6.9
77.5°	24.2	19.1	13.8	10.4	6.9	5.2	5.2	5.2
80°	15.6	12.2	8.7	6.9	5.2	3.5	3.5	3.5
82.5°	8.7	6.9	5.2	3.5	3.5	1.7	1.7	1.7
85°	3.5	3.5	3.5	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)