

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: P136636

Luminaire Tested: **LD6A15D010TE ERW6A15927 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136636
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 ERW6A15927 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: 1468.1 lumens
Efficiency: N/A
Efficacy: 65.0 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

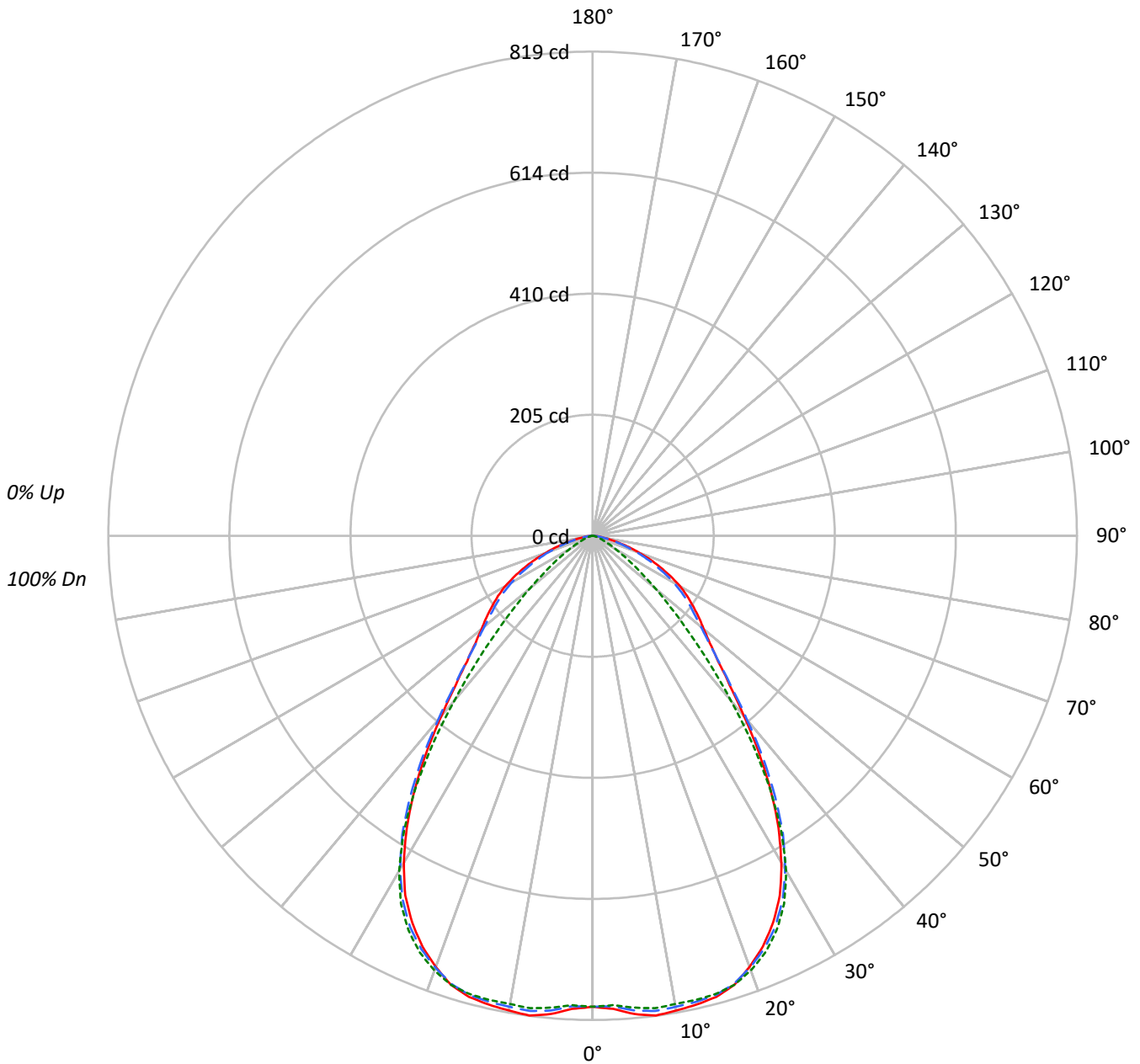
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	51964	51964	51964
5°	53191	52785	52470
10°	54024	53601	53283
15°	54540	54324	54216
20°	53869	53980	54306
25°	51988	52556	53010
30°	48093	49050	49283
35°	41781	42793	41654
40°	33913	34594	30949
45°	27698	27845	20999
50°	24856	24217	13956
55°	23545	22476	8986
60°	22273	20616	5767
65°	19528	17815	3659
70°	15966	14478	2403
75°	11570	10360	1613
80°	7702	6537	1165
85°	4791	3518	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	5.2
10°-20°	226.4	15.4
20°-30°	333.3	22.7
30°-40°	328.0	22.3
40°-50°	221.8	15.1
50°-60°	149.1	10.2
60°-70°	91.0	6.2
70°-80°	35.9	2.4
80°-90°	5.5	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°	636.8	43.4
0°-40°	964.8	65.7
0°-60°	1335.7	91.0
0°-90°	1468.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	812	809	806	805	801	78
15°	808	804	804	805	803	227
25°	722	724	730	737	736	330
35°	525	531	537	529	523	325
45°	300	305	302	250	228	237
55°	207	209	198	111	79	186
65°	126	127	115	47	24	126
75°	46	46	41	16	6	51
85°	6	5	5	2	2	8
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°	796.5	796.5	796.5	796.5	796.5	796.5	796.5	796.5	796.5	796.5	796.5
2.5°	801.2	798.0	799.6	798.0	798.0	794.8	798.0	798.0	796.5	796.5	796.5
5°	812.2	810.7	812.2	809.1	810.7	807.5	809.1	807.5	806.0	806.0	806.0
7.5°	818.6	815.5	817.0	813.8	815.5	812.2	813.8	812.2	810.7	810.7	809.1
10°	815.5	813.8	813.8	812.2	812.2	809.1	812.2	810.7	807.5	809.1	807.5
12.5°	812.2	810.7	812.2	809.1	810.7	806.0	809.1	807.5	806.0	807.5	806.0
15°	807.5	806.0	807.5	804.3	806.0	802.7	806.0	804.3	802.7	804.3	802.7
17.5°	796.5	794.8	796.5	794.8	796.5	791.7	794.8	794.8	793.3	794.8	794.8
20°	775.9	774.3	775.9	774.3	775.9	772.7	775.9	775.9	774.3	777.5	777.5
22.5°	752.2	752.2	752.2	752.2	753.7	750.6	753.7	753.7	753.7	757.0	757.0
25°	722.2	723.7	723.7	723.7	725.3	723.7	726.9	726.9	726.9	730.1	730.1
27.5°	685.9	685.9	687.4	689.0	689.0	687.4	690.6	692.1	692.1	695.3	696.9
30°	638.4	640.0	641.6	643.1	644.7	643.1	646.4	646.4	647.9	651.1	652.6
32.5°	584.7	587.9	587.9	591.0	592.6	591.0	595.8	594.1	595.8	598.9	600.5
35°	524.6	527.8	527.8	531.0	531.0	531.0	534.1	535.7	535.7	537.3	537.3
37.5°	461.4	464.6	463.0	467.8	467.8	466.2	472.5	472.5	470.9	472.5	470.9
40°	398.2	401.4	401.4	404.5	404.5	404.5	409.3	406.2	406.2	406.2	402.9
42.5°	342.9	346.1	346.1	349.2	349.2	349.2	352.4	352.4	349.2	347.7	342.9
45°	300.2	301.8	303.4	304.9	304.9	304.9	308.2	306.6	304.9	301.8	293.9
47.5°	268.7	270.2	270.2	271.8	271.8	271.8	273.4	273.4	270.2	265.5	257.6
50°	244.9	244.9	246.6	246.6	248.1	246.6	248.1	246.6	243.3	238.6	229.1
52.5°	226.0	226.0	226.0	227.6	227.6	227.6	227.6	226.0	222.8	216.5	205.5
55°	207.0	207.0	208.6	208.6	210.2	208.6	208.6	207.0	202.3	197.6	184.8
57.5°	189.6	189.6	189.6	191.2	191.2	191.2	189.6	188.1	184.8	178.6	166.0
60°	170.7	170.7	170.7	170.7	172.2	170.7	170.7	167.5	164.3	158.0	147.0
62.5°	148.6	148.6	148.6	150.1	150.1	148.6	148.6	145.4	142.2	135.9	124.8
65°	126.5	126.5	126.5	128.0	128.0	126.5	126.5	123.2	120.1	115.4	104.3
67.5°	105.9	105.9	105.9	105.9	105.9	104.3	104.3	102.7	99.6	94.8	86.9
70°	83.7	83.7	83.7	85.4	83.7	83.7	83.7	82.2	79.0	75.9	68.0
72.5°	64.7	64.7	64.7	64.7	64.7	64.7	63.2	63.2	60.0	56.9	52.1
75°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	44.2	42.6	41.1	36.4
77.5°	31.6	31.6	31.6	31.6	31.6	31.6	31.6	30.0	30.0	28.5	25.3
80°	20.5	20.5	20.5	20.5	20.5	19.0	19.0	19.0	19.0	17.4	15.8
82.5°	12.6	11.1	12.6	11.1	11.1	11.1	11.1	11.1	11.1	11.1	9.5
85°	6.4	6.4	6.4	6.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	796.5	796.5	796.5	796.5	796.5	796.5	796.5	796.5
2.5°	796.5	793.3	796.5	798.0	794.8	796.5	798.0	794.8
5°	806.0	801.2	804.3	806.0	801.2	802.7	804.3	801.2
7.5°	810.7	806.0	809.1	809.1	804.3	807.5	809.1	806.0
10°	807.5	804.3	807.5	807.5	804.3	806.0	807.5	804.3
12.5°	806.0	802.7	806.0	807.5	802.7	806.0	807.5	804.3
15°	804.3	801.2	804.3	806.0	801.2	804.3	806.0	802.7
17.5°	794.8	793.3	798.0	798.0	794.8	798.0	799.6	796.5
20°	779.1	777.5	782.2	783.8	780.6	783.8	785.3	782.2
22.5°	758.5	757.0	761.7	763.2	760.1	763.2	764.8	763.2
25°	733.2	731.6	736.4	738.0	734.8	738.0	739.6	736.4
27.5°	698.5	696.9	701.6	701.6	700.1	703.2	704.7	701.6
30°	654.2	651.1	655.8	654.2	652.6	655.8	655.8	654.2
32.5°	598.9	595.8	598.9	595.8	595.8	597.4	597.4	594.1
35°	534.1	532.5	531.0	526.3	526.3	526.3	526.3	523.0
37.5°	466.2	461.4	458.3	450.4	447.2	448.8	447.2	444.0
40°	396.7	388.8	382.4	372.9	368.2	368.2	366.7	363.4
42.5°	335.0	323.9	314.4	301.8	297.1	295.5	292.3	290.8
45°	284.4	270.2	256.0	243.3	235.5	233.8	230.7	227.6
47.5°	244.9	227.6	210.2	196.0	188.1	183.3	180.1	178.6
50°	213.3	194.3	173.8	156.5	148.6	142.2	139.1	137.5
52.5°	188.1	167.5	143.8	126.5	117.0	110.6	107.5	104.3
55°	167.5	143.8	120.1	101.1	91.6	85.4	82.2	79.0
57.5°	147.0	124.8	99.6	80.6	71.1	64.7	61.6	60.0
60°	128.0	105.9	82.2	64.7	55.4	49.0	45.9	44.2
62.5°	109.0	88.5	68.0	52.1	42.6	36.4	33.2	33.2
65°	90.1	72.7	53.7	39.5	31.6	26.9	23.7	23.7
67.5°	74.2	58.5	42.6	31.6	23.7	20.5	17.4	17.4
70°	58.5	47.4	33.2	25.3	19.0	14.2	12.6	12.6
72.5°	44.2	36.4	25.3	19.0	14.2	11.1	9.5	9.5
75°	31.6	25.3	19.0	12.6	9.5	7.9	6.4	6.4
77.5°	22.1	17.4	12.6	9.5	6.4	4.7	4.7	4.7
80°	14.2	11.1	7.9	6.4	4.7	3.1	3.1	3.1
82.5°	7.9	6.4	4.7	3.1	3.1	1.6	1.6	1.6
85°	3.1	3.1	3.1	1.6	1.6	1.6	1.6	1.6
87.5°	1.6	1.6	1.6	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)