

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: P136606

Luminaire Tested: **LD6A10D010TE ERW6A10935 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136606
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 ERW6A10935 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 3500K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1079.6 lumens
Efficiency: N/A
Efficacy: 77.1 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

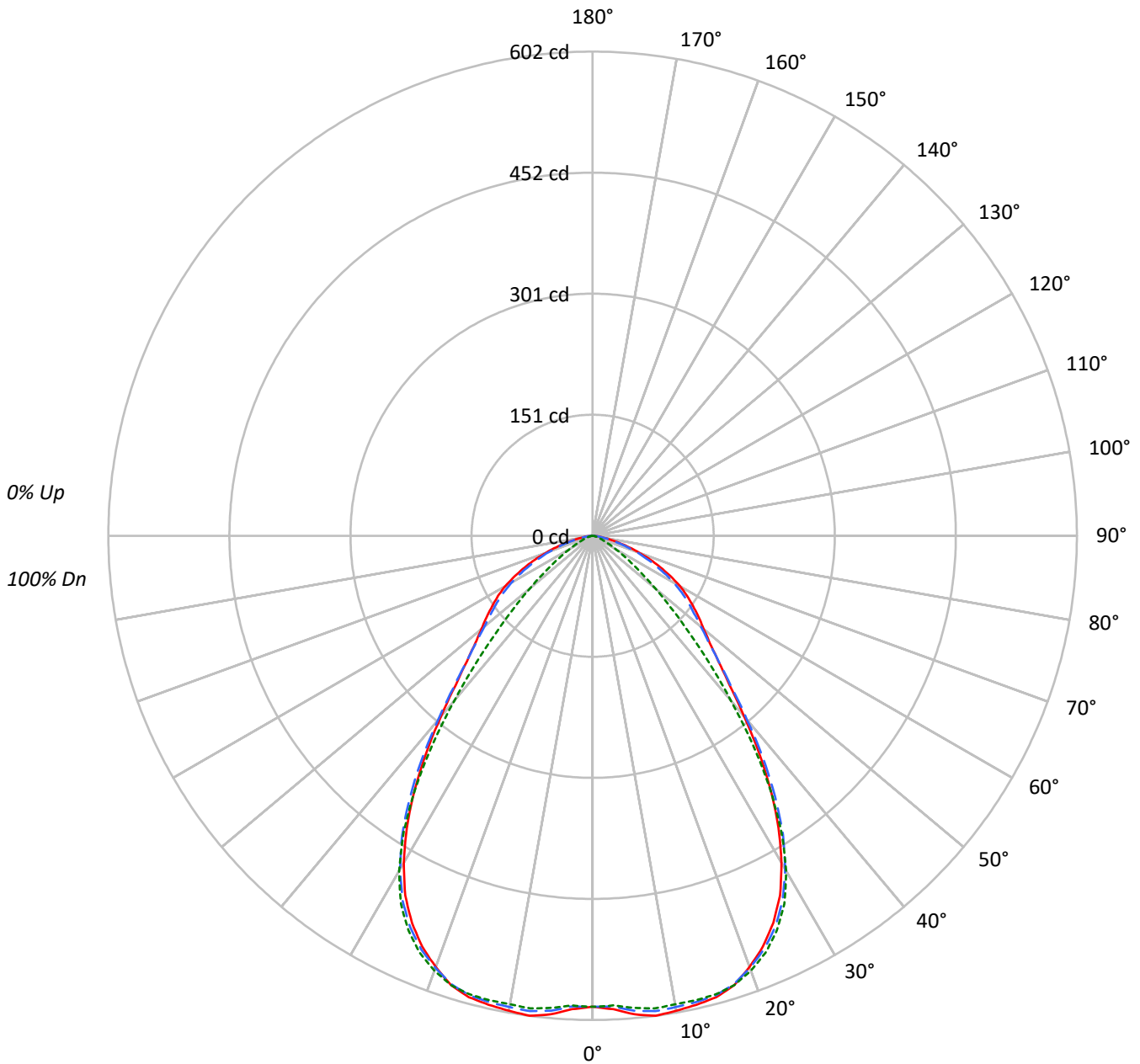
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	38211	38211	38211
5°	39117	38816	38587
10°	39722	39417	39185
15°	40113	39951	39877
20°	39608	39692	39935
25°	38231	38642	38980
30°	35369	36062	36243
35°	30727	31467	30631
40°	24936	25430	22756
45°	20372	20483	15445
50°	18280	17802	10261
55°	17312	16516	6609
60°	16375	15162	4241
65°	14357	13091	2686
70°	11750	10644	1774
75°	8495	7613	1185
80°	5673	4809	864
85°	3518	2620	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	5.2
10°-20°	166.5	15.4
20°-30°	245.1	22.7
30°-40°	241.2	22.3
40°-50°	163.1	15.1
50°-60°	109.6	10.2
60°-70°	66.9	6.2
70°-80°	26.4	2.4
80°-90°	4.1	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°	468.3	43.4
0°-40°	709.5	65.7
0°-60°	982.2	91.0
0°-90°	1079.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	597	595	593	592	589	57
15°	594	592	592	592	590	167
25°	531	533	537	542	542	243
35°	386	390	395	389	385	239
45°	221	224	222	184	167	174
55°	152	154	145	81	58	136
65°	93	94	85	34	17	92
75°	34	34	30	12	5	38
85°	5	4	4	2	1	6
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°	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7
2.5°	589.2	586.9	588.0	586.9	586.9	584.5	586.9	586.9	585.7	585.7	585.7
5°	597.3	596.1	597.3	595.0	596.1	593.9	595.0	593.9	592.7	592.7	592.7
7.5°	601.9	599.6	600.7	598.4	599.6	597.3	598.4	597.3	596.1	596.1	595.0
10°	599.6	598.4	598.4	597.3	597.3	595.0	597.3	596.1	593.9	595.0	593.9
12.5°	597.3	596.1	597.3	595.0	596.1	592.7	595.0	593.9	592.7	593.9	592.7
15°	593.9	592.7	593.9	591.5	592.7	590.4	592.7	591.5	590.4	591.5	590.4
17.5°	585.7	584.5	585.7	584.5	585.7	582.2	584.5	584.5	583.4	584.5	584.5
20°	570.5	569.4	570.5	569.4	570.5	568.2	570.5	570.5	569.4	571.7	571.7
22.5°	553.1	553.1	553.1	553.1	554.3	552.0	554.3	554.3	554.3	556.6	556.6
25°	531.1	532.3	532.3	532.3	533.4	532.3	534.6	534.6	534.6	536.8	536.8
27.5°	504.3	504.3	505.5	506.6	506.6	505.5	507.8	508.9	508.9	511.3	512.4
30°	469.5	470.7	471.8	473.0	474.1	473.0	475.2	475.2	476.4	478.7	479.9
32.5°	430.0	432.3	432.3	434.6	435.8	434.6	438.1	437.0	438.1	440.5	441.6
35°	385.8	388.1	388.1	390.4	390.4	390.4	392.8	393.9	393.9	395.1	395.1
37.5°	339.3	341.7	340.5	344.0	344.0	342.8	347.5	347.5	346.3	347.5	346.3
40°	292.8	295.1	295.1	297.5	297.5	297.5	301.0	298.6	298.6	298.6	296.3
42.5°	252.2	254.5	254.5	256.9	256.9	256.9	259.2	259.2	256.9	255.7	252.2
45°	220.8	222.0	223.1	224.3	224.3	224.3	226.6	225.5	224.3	222.0	216.1
47.5°	197.6	198.7	198.7	199.8	199.8	199.8	201.0	201.0	198.7	195.3	189.4
50°	180.1	180.1	181.3	181.3	182.4	181.3	182.4	181.3	178.9	175.4	168.5
52.5°	166.2	166.2	166.2	167.4	167.4	167.4	167.4	166.2	163.9	159.2	151.1
55°	152.2	152.2	153.4	153.4	154.6	153.4	153.4	152.2	148.7	145.2	136.0
57.5°	139.4	139.4	139.4	140.6	140.6	140.6	139.4	138.3	136.0	131.3	122.0
60°	125.5	125.5	125.5	125.5	126.7	125.5	125.5	123.2	120.8	116.2	108.0
62.5°	109.2	109.2	109.2	110.4	110.4	109.2	109.2	106.9	104.6	100.0	91.8
65°	93.0	93.0	93.0	94.1	94.1	93.0	93.0	90.6	88.3	84.8	76.7
67.5°	77.8	77.8	77.8	77.8	77.8	76.7	76.7	75.6	73.2	69.8	63.9
70°	61.6	61.6	61.6	62.8	61.6	61.6	61.6	60.4	58.1	55.8	49.9
72.5°	47.6	47.6	47.6	47.6	47.6	47.6	46.5	46.5	44.2	41.9	38.4
75°	33.7	33.7	33.7	33.7	33.7	33.7	33.7	32.5	31.4	30.2	26.7
77.5°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	22.1	22.1	20.9	18.6
80°	15.1	15.1	15.1	15.1	15.1	14.0	14.0	14.0	14.0	12.8	11.7
82.5°	9.3	8.2	9.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.0
85°	4.7	4.7	4.7	4.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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°	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7
2.5°	585.7	583.4	585.7	586.9	584.5	585.7	586.9	584.5
5°	592.7	589.2	591.5	592.7	589.2	590.4	591.5	589.2
7.5°	596.1	592.7	595.0	595.0	591.5	593.9	595.0	592.7
10°	593.9	591.5	593.9	593.9	591.5	592.7	593.9	591.5
12.5°	592.7	590.4	592.7	593.9	590.4	592.7	593.9	591.5
15°	591.5	589.2	591.5	592.7	589.2	591.5	592.7	590.4
17.5°	584.5	583.4	586.9	586.9	584.5	586.9	588.0	585.7
20°	572.9	571.7	575.2	576.4	574.0	576.4	577.5	575.2
22.5°	557.8	556.6	560.1	561.3	559.0	561.3	562.5	561.3
25°	539.2	538.0	541.5	542.7	540.3	542.7	543.8	541.5
27.5°	513.6	512.4	515.9	515.9	514.8	517.1	518.3	515.9
30°	481.1	478.7	482.2	481.1	479.9	482.2	482.2	481.1
32.5°	440.5	438.1	440.5	438.1	438.1	439.3	439.3	437.0
35°	392.8	391.6	390.4	386.9	386.9	386.9	386.9	384.6
37.5°	342.8	339.3	337.0	331.2	328.8	330.0	328.8	326.5
40°	291.6	285.9	281.2	274.2	270.7	270.7	269.6	267.2
42.5°	246.4	238.2	231.2	222.0	218.5	217.3	215.0	213.8
45°	209.2	198.7	188.3	178.9	173.1	171.9	169.6	167.4
47.5°	180.1	167.4	154.6	144.1	138.3	134.8	132.5	131.3
50°	156.9	142.9	127.8	115.0	109.2	104.6	102.3	101.1
52.5°	138.3	123.2	105.8	93.0	86.0	81.3	79.0	76.7
55°	123.2	105.8	88.3	74.4	67.4	62.8	60.4	58.1
57.5°	108.0	91.8	73.2	59.3	52.3	47.6	45.3	44.2
60°	94.1	77.8	60.4	47.6	40.7	36.0	33.7	32.5
62.5°	80.1	65.1	49.9	38.4	31.4	26.7	24.4	24.4
65°	66.3	53.4	39.5	29.0	23.2	19.7	17.4	17.4
67.5°	54.6	43.0	31.4	23.2	17.4	15.1	12.8	12.8
70°	43.0	34.9	24.4	18.6	14.0	10.5	9.3	9.3
72.5°	32.5	26.7	18.6	14.0	10.5	8.2	7.0	7.0
75°	23.2	18.6	14.0	9.3	7.0	5.8	4.7	4.7
77.5°	16.2	12.8	9.3	7.0	4.7	3.5	3.5	3.5
80°	10.5	8.2	5.8	4.7	3.5	2.3	2.3	2.3
82.5°	5.8	4.7	3.5	2.3	2.3	1.2	1.2	1.2
85°	2.3	2.3	2.3	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)