

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: P136635

Luminaire Tested: **LD6A15D010TE ERW6A15840 6LW121H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136635  
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 ERW6A15840 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**

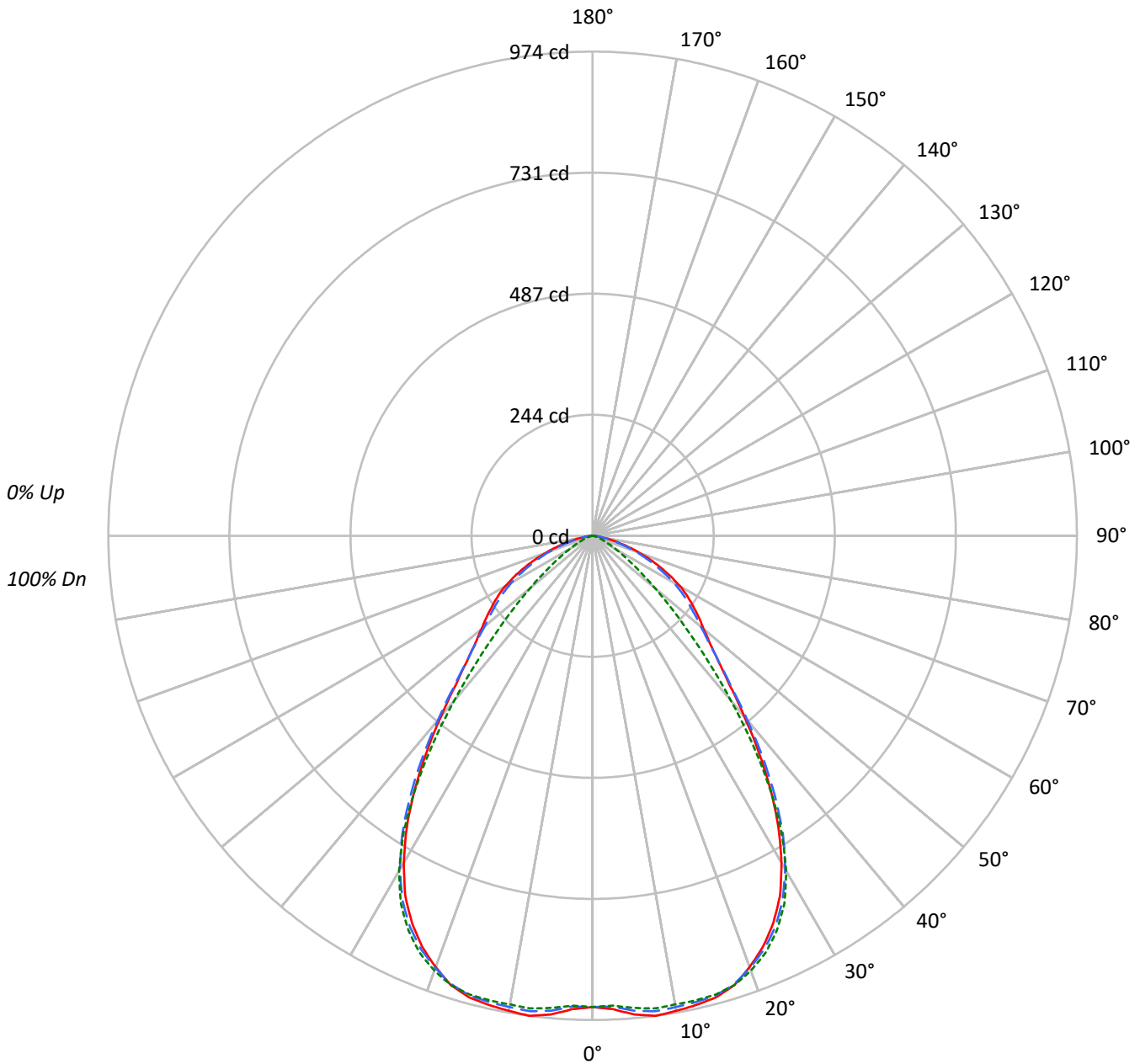
Lumens per Lamp: N/A  
Luminaire Lumens: 1747.0 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.15  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 22.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P136635

CATALOG NUMBER: LD6A15D010TE ERW6A15840 6LW121H

### Luminous Intensity Polar Plot





TEST NUMBER: P136635

CATALOG NUMBER: LD6A15D010TE ERW6A15840 6LW121H

**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°	61835	61835	61835
5°	63302	62805	62438
10°	64280	63783	63412
15°	64901	64651	64523
20°	64103	64234	64623
25°	61864	62541	63081
30°	57231	58368	58647
35°	49722	50924	49570
40°	40360	41161	36834
45°	32966	33141	24985
50°	29586	28825	16605
55°	28015	26741	10692
60°	26501	24530	6876
65°	23218	21195	4353
70°	19018	17225	2861
75°	13738	12326	1891
80°	9167	7777	1428
85°	5614	4192	1422



TEST NUMBER: P136635

CATALOG NUMBER: LD6A15D010TE ERW6A15840 6LW121H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	5.2
10°-20°	269.4	15.4
20°-30°	396.6	22.7
30°-40°	390.3	22.3
40°-50°	264.0	15.1
50°-60°	177.4	10.2
60°-70°	108.3	6.2
70°-80°	42.7	2.4
80°-90°	6.6	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°	757.8	43.4
0°-40°	1148.1	65.7
0°-60°	1589.4	91.0
0°-90°	1747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1747.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	967	963	959	958	953	92
15°	961	957	957	958	955	270
25°	859	862	869	877	876	393
35°	624	632	639	629	622	387
45°	357	363	359	297	271	282
55°	246	249	235	132	94	221
65°	150	151	137	55	28	149
75°	54	54	49	19	8	61
85°	8	6	6	3	2	10
90°	0	0	0	0	0	



TEST NUMBER: P136635

CATALOG NUMBER: LD6A15D010TE ERW6A15840 6LW121H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8
2.5°	953.4	949.6	951.5	949.6	949.6	945.9	949.6	949.6	947.8	947.8	947.8
5°	966.6	964.7	966.6	962.8	964.7	960.9	962.8	960.9	959.0	959.0	959.0
7.5°	974.1	970.3	972.2	968.4	970.3	966.6	968.4	966.6	964.7	964.7	962.8
10°	970.3	968.4	968.4	966.6	966.6	962.8	966.6	964.7	960.9	962.8	960.9
12.5°	966.6	964.7	966.6	962.8	964.7	959.0	962.8	960.9	959.0	960.9	959.0
15°	960.9	959.0	960.9	957.2	959.0	955.3	959.0	957.2	955.3	957.2	955.3
17.5°	947.8	945.9	947.8	945.9	947.8	942.1	945.9	945.9	944.0	945.9	945.9
20°	923.3	921.4	923.3	921.4	923.3	919.6	923.3	923.3	921.4	925.2	925.2
22.5°	895.1	895.1	895.1	895.1	897.0	893.2	897.0	897.0	897.0	900.8	900.8
25°	859.4	861.3	861.3	861.3	863.1	861.3	865.0	865.0	865.0	868.8	868.8
27.5°	816.1	816.1	818.0	819.9	819.9	818.0	821.8	823.7	823.7	827.4	829.3
30°	759.7	761.6	763.5	765.4	767.2	765.4	769.1	769.1	771.0	774.8	776.6
32.5°	695.8	699.5	699.5	703.3	705.2	703.3	708.9	707.1	708.9	712.7	714.6
35°	624.3	628.1	628.1	631.8	631.8	631.8	635.6	637.5	637.5	639.4	639.4
37.5°	549.1	552.9	551.0	556.6	556.6	554.7	562.3	562.3	560.4	562.3	560.4
40°	473.9	477.6	477.6	481.4	481.4	481.4	487.0	483.3	483.3	483.3	479.5
42.5°	408.1	411.8	411.8	415.6	415.6	415.6	419.3	419.3	415.6	413.7	408.1
45°	357.3	359.2	361.1	362.9	362.9	362.9	366.7	364.8	362.9	359.2	349.8
47.5°	319.7	321.6	321.6	323.4	323.4	323.4	325.3	325.3	321.6	315.9	306.5
50°	291.5	291.5	293.4	293.4	295.2	293.4	295.2	293.4	289.6	284.0	272.7
52.5°	268.9	268.9	268.9	270.8	270.8	270.8	270.8	268.9	265.1	257.6	244.5
55°	246.3	246.3	248.2	248.2	250.1	248.2	248.2	246.3	240.7	235.1	220.0
57.5°	225.7	225.7	225.7	227.5	227.5	227.5	225.7	223.8	220.0	212.5	197.5
60°	203.1	203.1	203.1	203.1	205.0	203.1	203.1	199.3	195.6	188.0	174.9
62.5°	176.8	176.8	176.8	178.6	178.6	176.8	176.8	173.0	169.2	161.7	148.6
65°	150.4	150.4	150.4	152.3	152.3	150.4	150.4	146.7	142.9	137.3	124.1
67.5°	126.0	126.0	126.0	126.0	126.0	124.1	124.1	122.2	118.5	112.8	103.4
70°	99.7	99.7	99.7	101.5	99.7	99.7	99.7	97.8	94.0	90.3	80.9
72.5°	77.1	77.1	77.1	77.1	77.1	77.1	75.2	75.2	71.5	67.7	62.1
75°	54.5	54.5	54.5	54.5	54.5	54.5	54.5	52.7	50.8	48.9	43.3
77.5°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	35.7	35.7	33.8	30.1
80°	24.4	24.4	24.4	24.4	24.4	22.6	22.6	22.6	22.6	20.7	18.8
82.5°	15.0	13.2	15.0	13.2	13.2	13.2	13.2	13.2	13.2	13.2	11.3
85°	7.5	7.5	7.5	7.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P136635

CATALOG NUMBER: LD6A15D010TE ERW6A15840 6LW121H

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	947.8	947.8	947.8	947.8	947.8	947.8	947.8	947.8
2.5°	947.8	944.0	947.8	949.6	945.9	947.8	949.6	945.9
5°	959.0	953.4	957.2	959.0	953.4	955.3	957.2	953.4
7.5°	964.7	959.0	962.8	962.8	957.2	960.9	962.8	959.0
10°	960.9	957.2	960.9	960.9	957.2	959.0	960.9	957.2
12.5°	959.0	955.3	959.0	960.9	955.3	959.0	960.9	957.2
15°	957.2	953.4	957.2	959.0	953.4	957.2	959.0	955.3
17.5°	945.9	944.0	949.6	949.6	945.9	949.6	951.5	947.8
20°	927.1	925.2	930.8	932.7	929.0	932.7	934.6	930.8
22.5°	902.6	900.8	906.4	908.3	904.5	908.3	910.2	908.3
25°	872.5	870.7	876.3	878.2	874.4	878.2	880.1	876.3
27.5°	831.2	829.3	834.9	834.9	833.1	836.8	838.7	834.9
30°	778.5	774.8	780.4	778.5	776.6	780.4	780.4	778.5
32.5°	712.7	708.9	712.7	708.9	708.9	710.8	710.8	707.1
35°	635.6	633.7	631.8	626.2	626.2	626.2	626.2	622.4
37.5°	554.7	549.1	545.3	535.9	532.2	534.1	532.2	528.4
40°	472.0	462.6	455.1	443.8	438.2	438.2	436.3	432.5
42.5°	398.7	385.5	374.2	359.2	353.5	351.7	347.9	346.0
45°	338.5	321.6	304.6	289.6	280.2	278.3	274.6	270.8
47.5°	291.5	270.8	250.1	233.2	223.8	218.1	214.4	212.5
50°	253.9	231.3	206.9	186.2	176.8	169.2	165.5	163.6
52.5°	223.8	199.3	171.1	150.4	139.2	131.6	127.9	124.1
55°	199.3	171.1	142.9	120.4	109.1	101.5	97.8	94.0
57.5°	174.9	148.6	118.5	95.9	84.6	77.1	73.3	71.5
60°	152.3	126.0	97.8	77.1	65.8	58.3	54.5	52.7
62.5°	129.8	105.3	80.9	62.1	50.8	43.3	39.5	39.5
65°	107.2	86.5	63.9	47.0	37.6	32.0	28.2	28.2
67.5°	88.4	69.6	50.8	37.6	28.2	24.4	20.7	20.7
70°	69.6	56.4	39.5	30.1	22.6	16.9	15.0	15.0
72.5°	52.7	43.3	30.1	22.6	16.9	13.2	11.3	11.3
75°	37.6	30.1	22.6	15.0	11.3	9.4	7.5	7.5
77.5°	26.3	20.7	15.0	11.3	7.5	5.6	5.6	5.6
80°	16.9	13.2	9.4	7.5	5.6	3.8	3.8	3.8
82.5°	9.4	7.5	5.6	3.8	3.8	1.9	1.9	1.9
85°	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	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



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°    - - 45°-225°    - - - - 90°-270°









(END OF REPORT)