

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: P136638

Luminaire Tested: **LD6A15D010TE ERW6A15935 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136638
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 ERW6A15935 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: 1576.8 lumens
Efficiency: N/A
Efficacy: 69.8 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

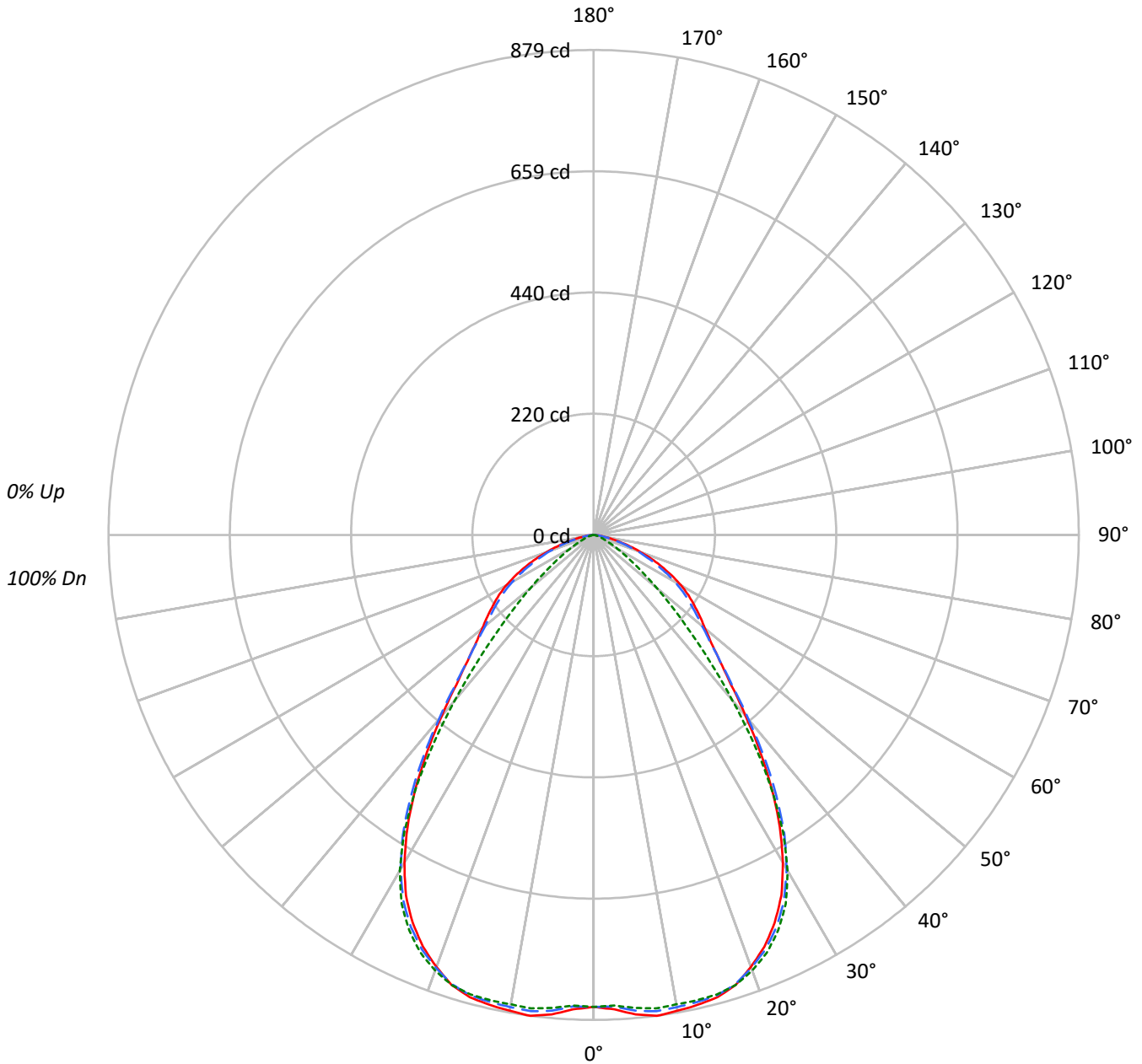
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	55807	55807	55807
5°	57133	56688	56354
10°	58019	57569	57231
15°	58579	58350	58228
20°	57854	57979	58326
25°	55839	56443	56933
30°	51656	52673	52929
35°	44879	45963	44744
40°	36425	37149	33240
45°	29746	29912	22549
50°	26694	26014	14981
55°	25285	24136	9645
60°	23917	22143	6198
65°	20964	19127	3921
70°	17168	15546	2575
75°	12402	11116	1714
80°	8303	7026	1277
85°	5090	3818	1273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	5.2
10°-20°	243.2	15.4
20°-30°	358.0	22.7
30°-40°	352.3	22.3
40°-50°	238.2	15.1
50°-60°	160.1	10.2
60°-70°	97.7	6.2
70°-80°	38.5	2.4
80°-90°	5.9	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°	683.9	43.4
0°-40°	1036.2	65.7
0°-60°	1434.6	91.0
0°-90°	1576.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1576.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	872	869	866	865	860	83
15°	867	864	864	865	862	244
25°	776	778	784	792	791	354
35°	564	570	577	568	562	349
45°	322	328	324	268	244	255
55°	222	225	212	119	85	199
65°	136	137	124	50	25	135
75°	49	49	44	17	7	55
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°	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4
2.5°	860.5	857.1	858.8	857.1	857.1	853.7	857.1	857.1	855.4	855.4	855.4
5°	872.4	870.7	872.4	869.0	870.7	867.3	869.0	867.3	865.6	865.6	865.6
7.5°	879.2	875.8	877.4	874.0	875.8	872.4	874.0	872.4	870.7	870.7	869.0
10°	875.8	874.0	874.0	872.4	872.4	869.0	872.4	870.7	867.3	869.0	867.3
12.5°	872.4	870.7	872.4	869.0	870.7	865.6	869.0	867.3	865.6	867.3	865.6
15°	867.3	865.6	867.3	863.9	865.6	862.1	865.6	863.9	862.1	863.9	862.1
17.5°	855.4	853.7	855.4	853.7	855.4	850.3	853.7	853.7	852.0	853.7	853.7
20°	833.3	831.7	833.3	831.7	833.3	829.9	833.3	833.3	831.7	835.1	835.1
22.5°	807.9	807.9	807.9	807.9	809.6	806.2	809.6	809.6	809.6	813.0	813.0
25°	775.7	777.3	777.3	777.3	779.1	777.3	780.7	780.7	780.7	784.1	784.1
27.5°	736.6	736.6	738.3	740.0	740.0	738.3	741.7	743.4	743.4	746.7	748.5
30°	685.7	687.3	689.1	690.8	692.5	690.8	694.2	694.2	695.9	699.2	701.0
32.5°	627.9	631.3	631.3	634.8	636.5	634.8	639.8	638.2	639.8	643.2	645.0
35°	563.5	566.9	566.9	570.3	570.3	570.3	573.7	575.3	575.3	577.1	577.1
37.5°	495.6	499.0	497.2	502.4	502.4	500.7	507.5	507.5	505.8	507.5	505.8
40°	427.7	431.1	431.1	434.5	434.5	434.5	439.6	436.2	436.2	436.2	432.8
42.5°	368.3	371.7	371.7	375.1	375.1	375.1	378.4	378.4	375.1	373.4	368.3
45°	322.4	324.2	325.8	327.6	327.6	327.6	330.9	329.3	327.6	324.2	315.7
47.5°	288.5	290.2	290.2	292.0	292.0	292.0	293.6	293.6	290.2	285.1	276.7
50°	263.0	263.0	264.8	264.8	266.4	264.8	266.4	264.8	261.4	256.3	246.1
52.5°	242.7	242.7	242.7	244.4	244.4	244.4	244.4	242.7	239.3	232.6	220.7
55°	222.3	222.3	224.1	224.1	225.7	224.1	224.1	222.3	217.3	212.2	198.6
57.5°	203.6	203.6	203.6	205.4	205.4	205.4	203.6	202.0	198.6	191.8	178.2
60°	183.3	183.3	183.3	183.3	185.0	183.3	183.3	179.9	176.6	169.7	157.9
62.5°	159.5	159.5	159.5	161.3	161.3	159.5	159.5	156.1	152.8	146.0	134.1
65°	135.8	135.8	135.8	137.5	137.5	135.8	135.8	132.3	129.0	123.9	112.0
67.5°	113.7	113.7	113.7	113.7	113.7	112.0	112.0	110.3	106.9	101.9	93.4
70°	90.0	90.0	90.0	91.6	90.0	90.0	90.0	88.2	84.8	81.5	72.9
72.5°	69.6	69.6	69.6	69.6	69.6	69.6	67.9	67.9	64.5	61.1	56.0
75°	49.2	49.2	49.2	49.2	49.2	49.2	49.2	47.5	45.9	44.1	39.1
77.5°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.2	32.2	30.6	27.2
80°	22.1	22.1	22.1	22.1	22.1	20.4	20.4	20.4	20.4	18.7	16.9
82.5°	13.5	11.9	13.5	11.9	11.9	11.9	11.9	11.9	11.9	11.9	10.2
85°	6.8	6.8	6.8	6.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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°	855.4	855.4	855.4	855.4	855.4	855.4	855.4	855.4
2.5°	855.4	852.0	855.4	857.1	853.7	855.4	857.1	853.7
5°	865.6	860.5	863.9	865.6	860.5	862.1	863.9	860.5
7.5°	870.7	865.6	869.0	869.0	863.9	867.3	869.0	865.6
10°	867.3	863.9	867.3	867.3	863.9	865.6	867.3	863.9
12.5°	865.6	862.1	865.6	867.3	862.1	865.6	867.3	863.9
15°	863.9	860.5	863.9	865.6	860.5	863.9	865.6	862.1
17.5°	853.7	852.0	857.1	857.1	853.7	857.1	858.8	855.4
20°	836.7	835.1	840.1	841.8	838.4	841.8	843.5	840.1
22.5°	814.6	813.0	818.0	819.8	816.4	819.8	821.4	819.8
25°	787.5	785.8	790.9	792.6	789.2	792.6	794.3	790.9
27.5°	750.2	748.5	753.6	753.6	751.9	755.3	757.0	753.6
30°	702.6	699.2	704.4	702.6	701.0	704.4	704.4	702.6
32.5°	643.2	639.8	643.2	639.8	639.8	641.6	641.6	638.2
35°	573.7	571.9	570.3	565.2	565.2	565.2	565.2	561.8
37.5°	500.7	495.6	492.2	483.7	480.3	482.1	480.3	476.9
40°	426.0	417.5	410.8	400.5	395.5	395.5	393.7	390.3
42.5°	359.8	348.0	337.7	324.2	319.0	317.4	314.0	312.3
45°	305.5	290.2	274.9	261.4	252.9	251.2	247.8	244.4
47.5°	263.0	244.4	225.7	210.4	202.0	196.9	193.5	191.8
50°	229.1	208.8	186.7	168.0	159.5	152.8	149.4	147.6
52.5°	202.0	179.9	154.5	135.8	125.6	118.8	115.4	112.0
55°	179.9	154.5	129.0	108.6	98.5	91.6	88.2	84.8
57.5°	157.9	134.1	106.9	86.6	76.4	69.6	66.2	64.5
60°	137.5	113.7	88.2	69.6	59.4	52.6	49.2	47.5
62.5°	117.2	95.0	72.9	56.0	45.9	39.1	35.6	35.6
65°	96.7	78.1	57.7	42.5	34.0	28.8	25.4	25.4
67.5°	79.8	62.8	45.9	34.0	25.4	22.1	18.7	18.7
70°	62.8	50.9	35.6	27.2	20.4	15.3	13.5	13.5
72.5°	47.5	39.1	27.2	20.4	15.3	11.9	10.2	10.2
75°	34.0	27.2	20.4	13.5	10.2	8.5	6.8	6.8
77.5°	23.8	18.7	13.5	10.2	6.8	5.1	5.1	5.1
80°	15.3	11.9	8.5	6.8	5.1	3.4	3.4	3.4
82.5°	8.5	6.8	5.1	3.4	3.4	1.7	1.7	1.7
85°	3.4	3.4	3.4	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)