

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: P136602

Luminaire Tested: **LD6A10D010TE ERW6A10835 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136602
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 ERW6A10835 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: 1176.0 lumens
Efficiency: N/A
Efficacy: 84.0 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

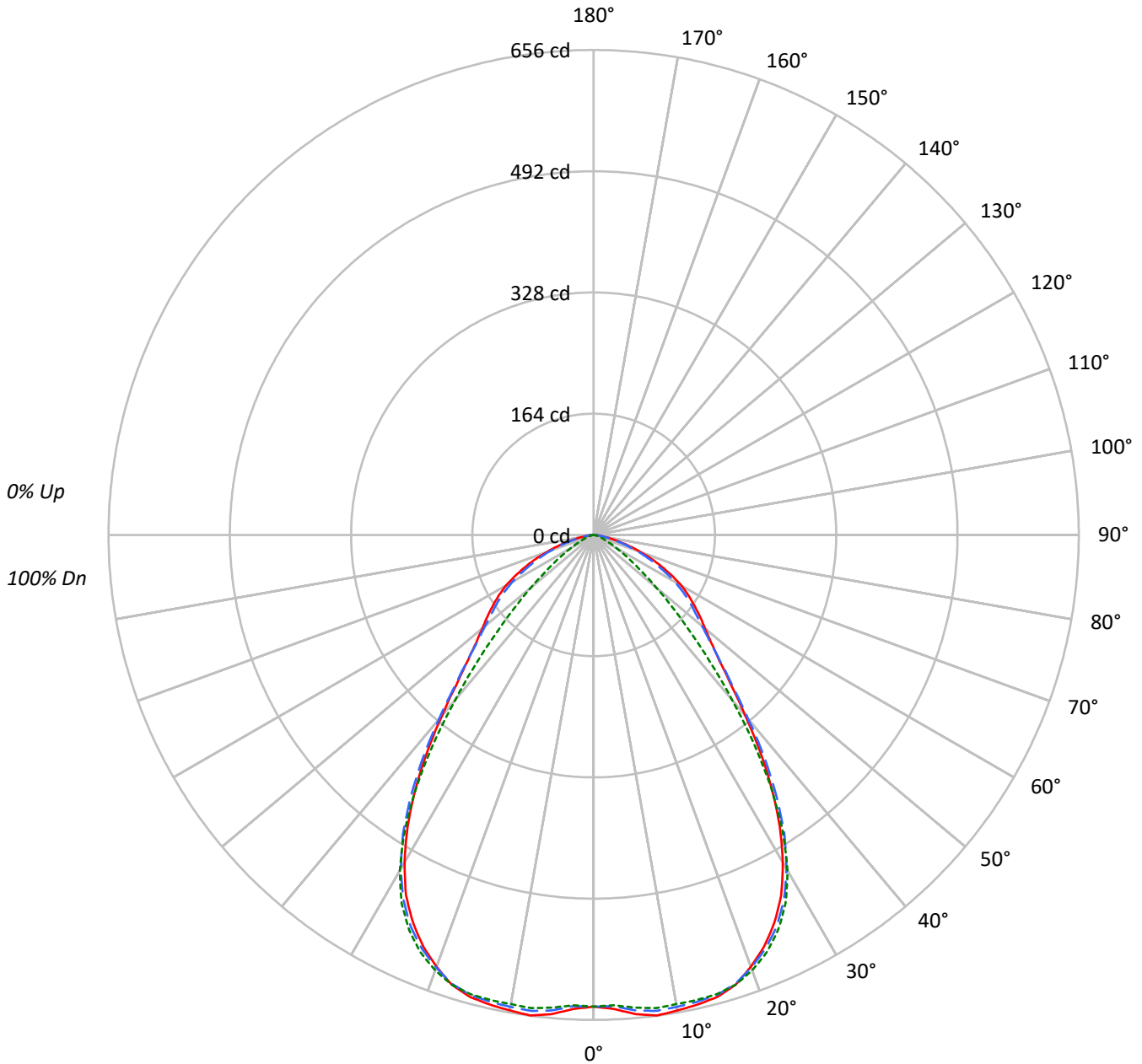
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	41624	41624	41624
5°	42608	42280	42031
10°	43273	42935	42683
15°	43693	43517	43436
20°	43149	43240	43503
25°	41643	42097	42464
30°	38525	39286	39482
35°	33474	34279	33371
40°	27168	27704	24792
45°	22190	22309	16820
50°	19914	19396	11175
55°	18859	17994	7200
60°	17837	16519	4619
65°	15638	14264	2933
70°	12799	11598	1927
75°	9251	8293	1286
80°	6199	5222	939
85°	3818	2844	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	5.2
10°-20°	181.4	15.4
20°-30°	267.0	22.7
30°-40°	262.7	22.3
40°-50°	177.7	15.1
50°-60°	119.4	10.2
60°-70°	72.9	6.2
70°-80°	28.7	2.4
80°-90°	4.4	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°	510.1	43.4
0°-40°	772.8	65.7
0°-60°	1069.9	91.0
0°-90°	1176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	651	648	646	645	642	62
15°	647	644	644	645	643	182
25°	578	580	585	591	590	264
35°	420	425	430	423	419	260
45°	240	244	242	200	182	190
55°	166	168	158	89	63	149
65°	101	102	92	37	19	101
75°	37	37	33	13	5	41
85°	5	4	4	2	1	7
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°	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
2.5°	641.8	639.3	640.5	639.3	639.3	636.7	639.3	639.3	638.0	638.0	638.0
5°	650.6	649.4	650.6	648.1	649.4	646.9	648.1	646.9	645.6	645.6	645.6
7.5°	655.7	653.2	654.4	651.9	653.2	650.6	651.9	650.6	649.4	649.4	648.1
10°	653.2	651.9	651.9	650.6	650.6	648.1	650.6	649.4	646.9	648.1	646.9
12.5°	650.6	649.4	650.6	648.1	649.4	645.6	648.1	646.9	645.6	646.9	645.6
15°	646.9	645.6	646.9	644.3	645.6	643.1	645.6	644.3	643.1	644.3	643.1
17.5°	638.0	636.7	638.0	636.7	638.0	634.2	636.7	636.7	635.5	636.7	636.7
20°	621.5	620.3	621.5	620.3	621.5	619.0	621.5	621.5	620.3	622.8	622.8
22.5°	602.5	602.5	602.5	602.5	603.8	601.3	603.8	603.8	603.8	606.3	606.3
25°	578.5	579.8	579.8	579.8	581.0	579.8	582.3	582.3	582.3	584.8	584.8
27.5°	549.4	549.4	550.6	551.9	551.9	550.6	553.2	554.4	554.4	557.0	558.2
30°	511.4	512.7	513.9	515.2	516.5	515.2	517.7	517.7	519.0	521.5	522.8
32.5°	468.4	470.9	470.9	473.4	474.7	473.4	477.2	476.0	477.2	479.8	481.0
35°	420.3	422.8	422.8	425.3	425.3	425.3	427.9	429.1	429.1	430.4	430.4
37.5°	369.6	372.2	370.9	374.7	374.7	373.4	378.5	378.5	377.2	378.5	377.2
40°	319.0	321.5	321.5	324.1	324.1	324.1	327.9	325.3	325.3	325.3	322.8
42.5°	274.7	277.2	277.2	279.8	279.8	279.8	282.3	282.3	279.8	278.5	274.7
45°	240.5	241.8	243.0	244.3	244.3	244.3	246.8	245.6	244.3	241.8	235.4
47.5°	215.2	216.5	216.5	217.7	217.7	217.7	219.0	219.0	216.5	212.7	206.3
50°	196.2	196.2	197.5	197.5	198.7	197.5	198.7	197.5	194.9	191.1	183.5
52.5°	181.0	181.0	181.0	182.3	182.3	182.3	182.3	181.0	178.5	173.4	164.6
55°	165.8	165.8	167.1	167.1	168.4	167.1	167.1	165.8	162.0	158.2	148.1
57.5°	151.9	151.9	151.9	153.2	153.2	153.2	151.9	150.6	148.1	143.0	132.9
60°	136.7	136.7	136.7	136.7	138.0	136.7	136.7	134.2	131.6	126.6	117.7
62.5°	119.0	119.0	119.0	120.3	120.3	119.0	119.0	116.5	113.9	108.9	100.0
65°	101.3	101.3	101.3	102.5	102.5	101.3	101.3	98.7	96.2	92.4	83.5
67.5°	84.8	84.8	84.8	84.8	84.8	83.5	83.5	82.3	79.7	76.0	69.6
70°	67.1	67.1	67.1	68.4	67.1	67.1	67.1	65.8	63.3	60.8	54.4
72.5°	51.9	51.9	51.9	51.9	51.9	51.9	50.6	50.6	48.1	45.6	41.8
75°	36.7	36.7	36.7	36.7	36.7	36.7	36.7	35.4	34.2	32.9	29.1
77.5°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	24.1	24.1	22.8	20.3
80°	16.5	16.5	16.5	16.5	16.5	15.2	15.2	15.2	15.2	13.9	12.7
82.5°	10.1	8.9	10.1	8.9	8.9	8.9	8.9	8.9	8.9	8.9	7.6
85°	5.1	5.1	5.1	5.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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°	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0
2.5°	638.0	635.5	638.0	639.3	636.7	638.0	639.3	636.7
5°	645.6	641.8	644.3	645.6	641.8	643.1	644.3	641.8
7.5°	649.4	645.6	648.1	648.1	644.3	646.9	648.1	645.6
10°	646.9	644.3	646.9	646.9	644.3	645.6	646.9	644.3
12.5°	645.6	643.1	645.6	646.9	643.1	645.6	646.9	644.3
15°	644.3	641.8	644.3	645.6	641.8	644.3	645.6	643.1
17.5°	636.7	635.5	639.3	639.3	636.7	639.3	640.5	638.0
20°	624.1	622.8	626.6	627.9	625.3	627.9	629.1	626.6
22.5°	607.6	606.3	610.1	611.4	608.9	611.4	612.7	611.4
25°	587.4	586.1	589.9	591.2	588.6	591.2	592.4	589.9
27.5°	559.5	558.2	562.0	562.0	560.8	563.3	564.6	562.0
30°	524.1	521.5	525.3	524.1	522.8	525.3	525.3	524.1
32.5°	479.8	477.2	479.8	477.2	477.2	478.5	478.5	476.0
35°	427.9	426.6	425.3	421.5	421.5	421.5	421.5	419.0
37.5°	373.4	369.6	367.1	360.8	358.2	359.5	358.2	355.7
40°	317.7	311.4	306.3	298.7	294.9	294.9	293.7	291.1
42.5°	268.4	259.5	251.9	241.8	238.0	236.7	234.2	232.9
45°	227.9	216.5	205.1	194.9	188.6	187.3	184.8	182.3
47.5°	196.2	182.3	168.4	157.0	150.6	146.8	144.3	143.0
50°	170.9	155.7	139.2	125.3	119.0	113.9	111.4	110.1
52.5°	150.6	134.2	115.2	101.3	93.7	88.6	86.1	83.5
55°	134.2	115.2	96.2	81.0	73.4	68.4	65.8	63.3
57.5°	117.7	100.0	79.7	64.6	57.0	51.9	49.4	48.1
60°	102.5	84.8	65.8	51.9	44.3	39.2	36.7	35.4
62.5°	87.3	70.9	54.4	41.8	34.2	29.1	26.6	26.6
65°	72.2	58.2	43.0	31.6	25.3	21.5	19.0	19.0
67.5°	59.5	46.8	34.2	25.3	19.0	16.5	13.9	13.9
70°	46.8	38.0	26.6	20.3	15.2	11.4	10.1	10.1
72.5°	35.4	29.1	20.3	15.2	11.4	8.9	7.6	7.6
75°	25.3	20.3	15.2	10.1	7.6	6.3	5.1	5.1
77.5°	17.7	13.9	10.1	7.6	5.1	3.8	3.8	3.8
80°	11.4	8.9	6.3	5.1	3.8	2.5	2.5	2.5
82.5°	6.3	5.1	3.8	2.5	2.5	1.3	1.3	1.3
85°	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	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)