

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: P136605

Luminaire Tested: **LD6A10D010TE ERW6A10930 6LW121H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136605  
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 ERW6A10930 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 3000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1052.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 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

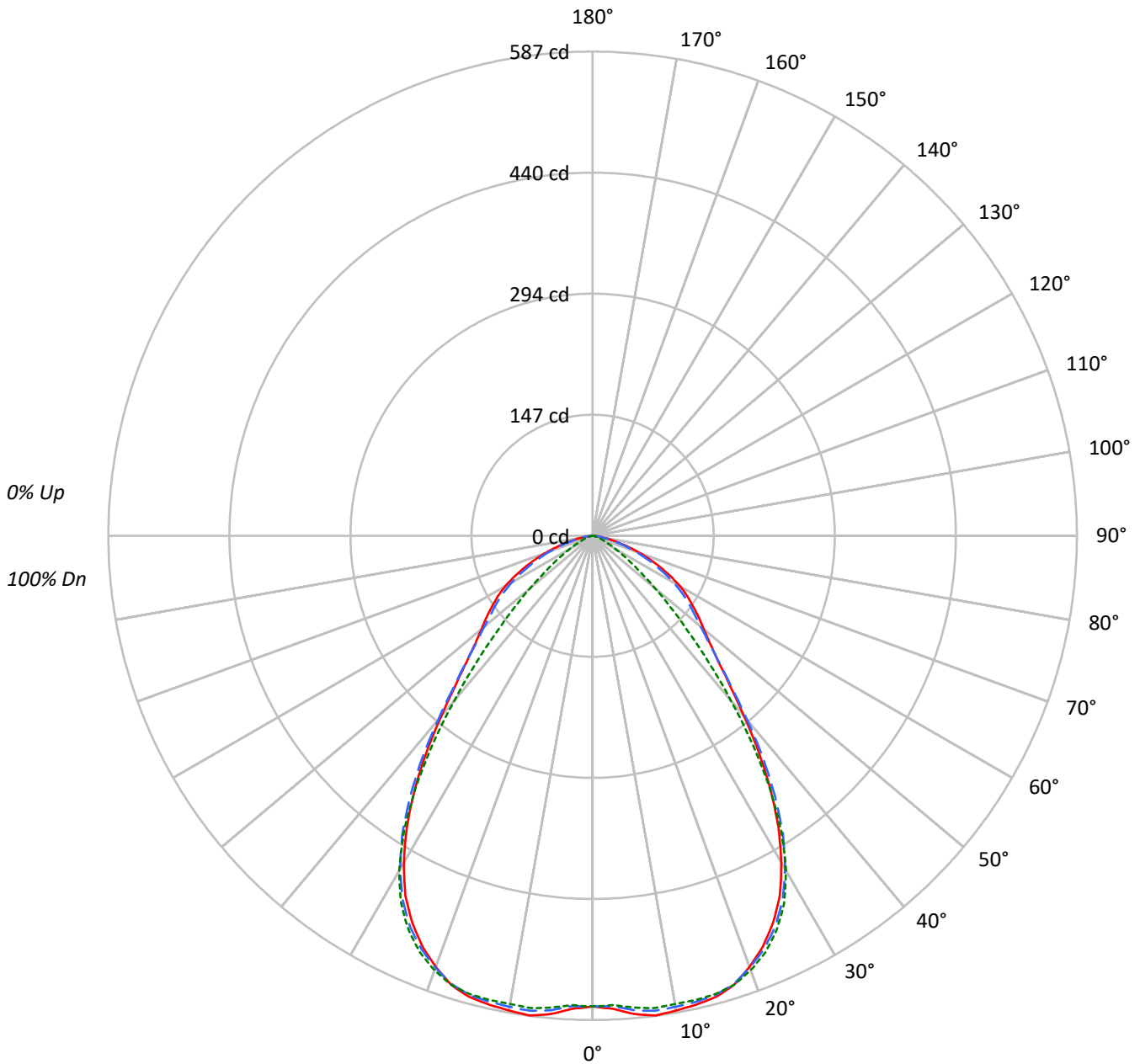
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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								
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°	37233	37233	37233
5°	38122	37820	37598
10°	38708	38410	38185
15°	39087	38931	38857
20°	38602	38678	38914
25°	37252	37663	37987
30°	34465	35143	35316
35°	29938	30663	29851
40°	24306	24783	22177
45°	19855	19957	15039
50°	17813	17356	9997
55°	16868	16106	6438
60°	15958	14784	4136
65°	13986	12767	2624
70°	11445	10358	1736
75°	8293	7436	1134
80°	5523	4696	864
85°	3368	2545	823



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.2	5.2
10°-20°	162.3	15.4
20°-30°	238.9	22.7
30°-40°	235.1	22.3
40°-50°	158.9	15.1
50°-60°	106.8	10.2
60°-70°	65.2	6.2
70°-80°	25.7	2.4
80°-90°	4.0	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°	456.3	43.4
0°-40°	691.4	65.7
0°-60°	957.1	91.0
0°-90°	1052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	582	580	578	577	574	56
15°	579	576	576	577	575	163
25°	518	519	523	528	528	236
35°	376	380	385	379	375	233
45°	215	219	216	179	163	170
55°	148	150	142	79	57	133
65°	91	91	83	33	17	90
75°	33	33	30	11	4	37
85°	4	3	3	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°	570.7	570.7	570.7	570.7	570.7	570.7	570.7	570.7	570.7	570.7	570.7
2.5°	574.1	571.8	573.0	571.8	571.8	569.6	571.8	571.8	570.7	570.7	570.7
5°	582.1	580.9	582.1	579.8	580.9	578.7	579.8	578.7	577.5	577.5	577.5
7.5°	586.6	584.3	585.5	583.2	584.3	582.1	583.2	582.1	580.9	580.9	579.8
10°	584.3	583.2	583.2	582.1	582.1	579.8	582.1	580.9	578.7	579.8	578.7
12.5°	582.1	580.9	582.1	579.8	580.9	577.5	579.8	578.7	577.5	578.7	577.5
15°	578.7	577.5	578.7	576.4	577.5	575.3	577.5	576.4	575.3	576.4	575.3
17.5°	570.7	569.6	570.7	569.6	570.7	567.3	569.6	569.6	568.4	569.6	569.6
20°	556.0	554.8	556.0	554.8	556.0	553.7	556.0	556.0	554.8	557.1	557.1
22.5°	539.0	539.0	539.0	539.0	540.2	537.9	540.2	540.2	540.2	542.4	542.4
25°	517.5	518.7	518.7	518.7	519.8	518.7	520.9	520.9	520.9	523.2	523.2
27.5°	491.5	491.5	492.6	493.7	493.7	492.6	494.9	496.0	496.0	498.3	499.4
30°	457.5	458.6	459.7	460.9	462.0	460.9	463.1	463.1	464.3	466.5	467.7
32.5°	419.0	421.3	421.3	423.6	424.7	423.6	427.0	425.8	427.0	429.2	430.4
35°	375.9	378.2	378.2	380.5	380.5	380.5	382.7	383.9	383.9	385.0	385.0
37.5°	330.7	333.0	331.8	335.2	335.2	334.1	338.6	338.6	337.5	338.6	337.5
40°	285.4	287.6	287.6	289.9	289.9	289.9	293.3	291.0	291.0	291.0	288.8
42.5°	245.7	248.0	248.0	250.2	250.2	250.2	252.5	252.5	250.2	249.1	245.7
45°	215.2	216.3	217.4	218.6	218.6	218.6	220.8	219.7	218.6	216.3	210.6
47.5°	192.5	193.6	193.6	194.8	194.8	194.8	195.9	195.9	193.6	190.2	184.6
50°	175.5	175.5	176.6	176.6	177.8	176.6	177.8	176.6	174.4	171.0	164.2
52.5°	161.9	161.9	161.9	163.0	163.0	163.0	163.0	161.9	159.6	155.1	147.2
55°	148.3	148.3	149.5	149.5	150.6	149.5	149.5	148.3	145.0	141.6	132.5
57.5°	135.9	135.9	135.9	137.1	137.1	137.1	135.9	134.8	132.5	128.0	118.9
60°	122.3	122.3	122.3	122.3	123.5	122.3	122.3	120.1	117.8	113.3	105.3
62.5°	106.5	106.5	106.5	107.6	107.6	106.5	106.5	104.2	101.9	97.4	89.5
65°	90.6	90.6	90.6	91.7	91.7	90.6	90.6	88.3	86.1	82.7	74.7
67.5°	75.8	75.8	75.8	75.8	75.8	74.7	74.7	73.6	71.3	67.9	62.2
70°	60.0	60.0	60.0	61.1	60.0	60.0	60.0	58.8	56.6	54.3	48.7
72.5°	46.5	46.5	46.5	46.5	46.5	46.5	45.3	45.3	43.1	40.8	37.4
75°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	31.7	30.6	29.5	26.1
77.5°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	21.5	21.5	20.4	18.1
80°	14.7	14.7	14.7	14.7	14.7	13.6	13.6	13.6	13.6	12.5	11.3
82.5°	9.1	7.9	9.1	7.9	7.9	7.9	7.9	7.9	7.9	7.9	6.8
85°	4.5	4.5	4.5	4.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	570.7	570.7	570.7	570.7	570.7	570.7	570.7	570.7
2.5°	570.7	568.4	570.7	571.8	569.6	570.7	571.8	569.6
5°	577.5	574.1	576.4	577.5	574.1	575.3	576.4	574.1
7.5°	580.9	577.5	579.8	579.8	576.4	578.7	579.8	577.5
10°	578.7	576.4	578.7	578.7	576.4	577.5	578.7	576.4
12.5°	577.5	575.3	577.5	578.7	575.3	577.5	578.7	576.4
15°	576.4	574.1	576.4	577.5	574.1	576.4	577.5	575.3
17.5°	569.6	568.4	571.8	571.8	569.6	571.8	573.0	570.7
20°	558.2	557.1	560.5	561.6	559.4	561.6	562.8	560.5
22.5°	543.5	542.4	545.8	546.9	544.6	546.9	548.0	546.9
25°	525.5	524.3	527.7	528.9	526.6	528.9	530.0	527.7
27.5°	500.5	499.4	502.8	502.8	501.7	503.9	505.1	502.8
30°	468.8	466.5	469.9	468.8	467.7	469.9	469.9	468.8
32.5°	429.2	427.0	429.2	427.0	427.0	428.1	428.1	425.8
35°	382.7	381.6	380.5	377.1	377.1	377.1	377.1	374.8
37.5°	334.1	330.7	328.4	322.8	320.5	321.6	320.5	318.2
40°	284.2	278.6	274.0	267.2	263.8	263.8	262.7	260.4
42.5°	240.1	232.2	225.4	216.3	212.9	211.8	209.5	208.4
45°	203.8	193.6	183.4	174.4	168.7	167.6	165.3	163.0
47.5°	175.5	163.0	150.6	140.5	134.8	131.4	129.1	128.0
50°	152.8	139.3	124.6	112.1	106.5	101.9	99.7	98.5
52.5°	134.8	120.1	103.1	90.6	83.8	79.2	77.0	74.7
55°	120.1	103.1	86.1	72.4	65.6	61.1	58.8	56.6
57.5°	105.3	89.5	71.3	57.7	50.9	46.5	44.2	43.1
60°	91.7	75.8	58.8	46.5	39.7	35.1	32.9	31.7
62.5°	78.1	63.4	48.7	37.4	30.6	26.1	23.8	23.8
65°	64.5	52.1	38.5	28.3	22.7	19.3	17.0	17.0
67.5°	53.2	41.9	30.6	22.7	17.0	14.7	12.5	12.5
70°	41.9	34.0	23.8	18.1	13.6	10.2	9.1	9.1
72.5°	31.7	26.1	18.1	13.6	10.2	7.9	6.8	6.8
75°	22.7	18.1	13.6	9.1	6.8	5.7	4.5	4.5
77.5°	15.9	12.5	9.1	6.8	4.5	3.4	3.4	3.4
80°	10.2	7.9	5.7	4.5	3.4	2.3	2.3	2.3
82.5°	5.7	4.5	3.4	2.3	2.3	1.1	1.1	1.1
85°	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	1.1	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)