

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: P136693

Luminaire Tested: **LD6A30D010TE ERW6A30930 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136693
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: LD6A30D010TE ERW6A30930 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: 2571.9 lumens
Efficiency: N/A
Efficacy: 56.6 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

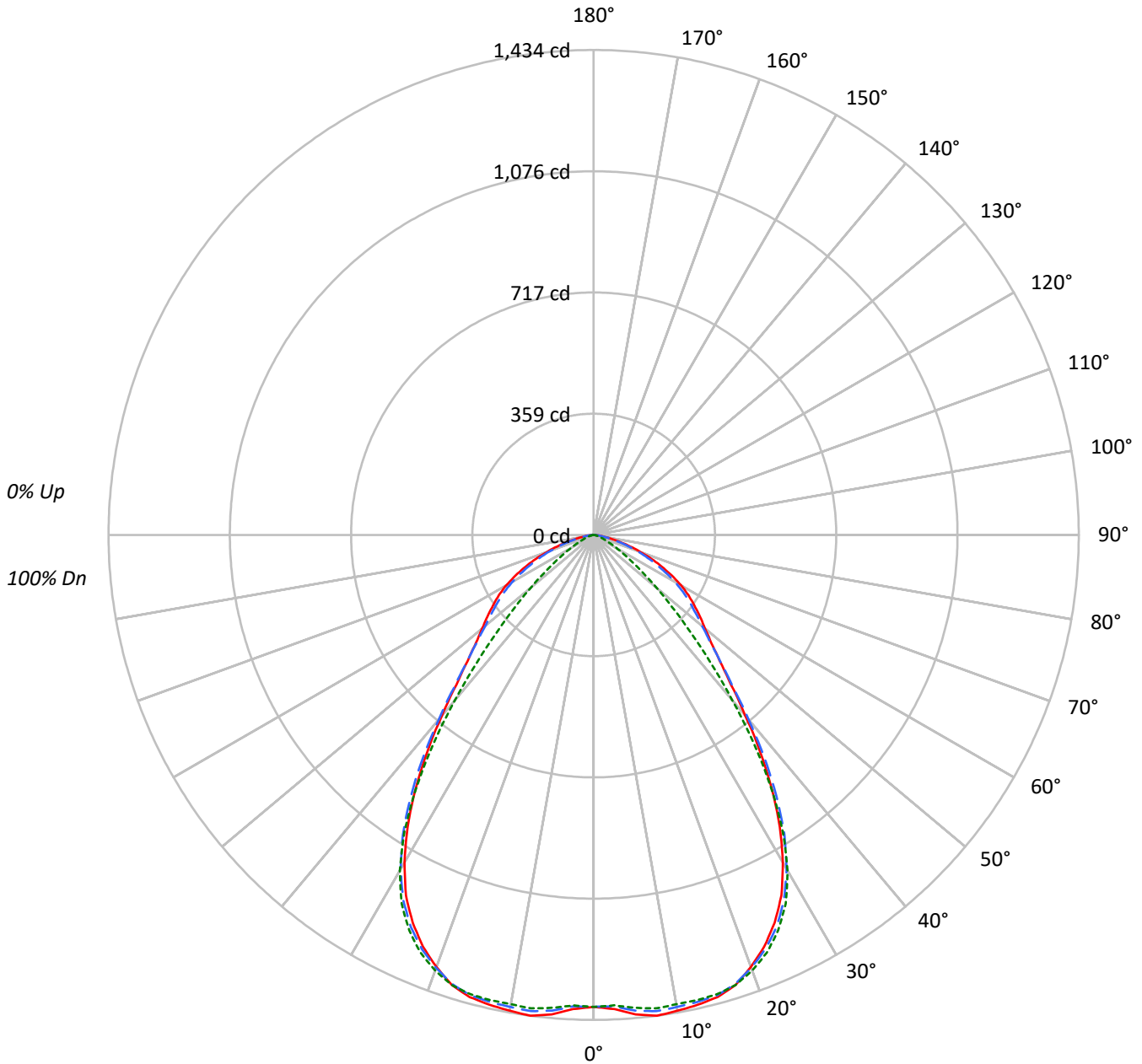
Input Watts (W): 45.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	91024	91024	91024
5°	93192	92465	91922
10°	94634	93899	93349
15°	95552	95174	94991
20°	94373	94567	95144
25°	91068	92069	92868
30°	84253	85925	86340
35°	73201	74969	72986
40°	59412	60595	54225
45°	48531	48789	36777
50°	43552	42436	24440
55°	41243	39355	15742
60°	39014	36117	10112
65°	34194	31199	6406
70°	27983	25332	4235
75°	20241	18124	2773
80°	13525	11459	2104
85°	8234	6213	2021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	5.2
10°-20°	396.7	15.4
20°-30°	583.9	22.7
30°-40°	574.6	22.3
40°-50°	388.6	15.1
50°-60°	261.2	10.2
60°-70°	159.4	6.2
70°-80°	62.8	2.4
80°-90°	9.7	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°	1115.6	43.4
0°-40°	1690.2	65.7
0°-60°	2340.0	91.0
0°-90°	2571.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1423	1417	1412	1410	1404	136
15°	1415	1409	1409	1410	1406	398
25°	1265	1269	1279	1292	1290	578
35°	919	930	941	926	916	570
45°	526	534	529	437	399	416
55°	363	367	346	194	138	325
65°	222	223	202	82	42	220
75°	80	80	72	28	11	90
85°	11	8	8	4	3	15
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°	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2
2.5°	1403.6	1398.1	1400.8	1398.1	1398.1	1392.5	1398.1	1398.1	1395.2	1395.2	1395.2
5°	1423.0	1420.2	1423.0	1417.4	1420.2	1414.7	1417.4	1414.7	1411.9	1411.9	1411.9
7.5°	1434.0	1428.5	1431.3	1425.7	1428.5	1423.0	1425.7	1423.0	1420.2	1420.2	1417.4
10°	1428.5	1425.7	1425.7	1423.0	1423.0	1417.4	1423.0	1420.2	1414.7	1417.4	1414.7
12.5°	1423.0	1420.2	1423.0	1417.4	1420.2	1411.9	1417.4	1414.7	1411.9	1414.7	1411.9
15°	1414.7	1411.9	1414.7	1409.1	1411.9	1406.4	1411.9	1409.1	1406.4	1409.1	1406.4
17.5°	1395.2	1392.5	1395.2	1392.5	1395.2	1387.0	1392.5	1392.5	1389.8	1392.5	1392.5
20°	1359.3	1356.5	1359.3	1356.5	1359.3	1353.8	1359.3	1359.3	1356.5	1362.1	1362.1
22.5°	1317.7	1317.7	1317.7	1317.7	1320.6	1315.0	1320.6	1320.6	1320.6	1326.0	1326.0
25°	1265.1	1268.0	1268.0	1268.0	1270.7	1268.0	1273.5	1273.5	1273.5	1279.0	1279.0
27.5°	1201.5	1201.5	1204.2	1207.1	1207.1	1204.2	1209.8	1212.6	1212.6	1218.1	1220.9
30°	1118.4	1121.3	1124.0	1126.7	1129.6	1126.7	1132.3	1132.3	1135.0	1140.6	1143.3
32.5°	1024.3	1029.9	1029.9	1035.4	1038.2	1035.4	1043.7	1040.9	1043.7	1049.2	1052.0
35°	919.1	924.7	924.7	930.2	930.2	930.2	935.7	938.5	938.5	941.3	941.3
37.5°	808.4	813.9	811.1	819.4	819.4	816.7	827.7	827.7	825.0	827.7	825.0
40°	697.6	703.2	703.2	708.8	708.8	708.8	717.1	711.5	711.5	711.5	705.9
42.5°	600.8	606.3	606.3	611.8	611.8	611.8	617.4	617.4	611.8	609.1	600.8
45°	526.0	528.8	531.5	534.3	534.3	534.3	539.9	537.1	534.3	528.8	514.9
47.5°	470.7	473.4	473.4	476.1	476.1	476.1	479.0	479.0	473.4	465.1	451.3
50°	429.1	429.1	431.8	431.8	434.7	431.8	434.7	431.8	426.4	418.1	401.4
52.5°	395.9	395.9	395.9	398.6	398.6	398.6	398.6	395.9	390.3	379.3	359.9
55°	362.6	362.6	365.5	365.5	368.2	365.5	365.5	362.6	354.3	346.0	323.9
57.5°	332.2	332.2	332.2	335.0	335.0	335.0	332.2	329.4	323.9	312.8	290.7
60°	299.0	299.0	299.0	299.0	301.7	299.0	299.0	293.4	288.0	276.8	257.5
62.5°	260.2	260.2	260.2	263.0	263.0	260.2	260.2	254.7	249.2	238.1	218.7
65°	221.5	221.5	221.5	224.2	224.2	221.5	221.5	215.9	210.4	202.1	182.7
67.5°	185.5	185.5	185.5	185.5	185.5	182.7	182.7	180.0	174.4	166.1	152.3
70°	146.7	146.7	146.7	149.5	146.7	146.7	146.7	144.0	138.4	132.8	119.1
72.5°	113.5	113.5	113.5	113.5	113.5	113.5	110.7	110.7	105.2	99.7	91.4
75°	80.3	80.3	80.3	80.3	80.3	80.3	80.3	77.5	74.8	71.9	63.6
77.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	52.6	52.6	49.8	44.3
80°	36.0	36.0	36.0	36.0	36.0	33.2	33.2	33.2	33.2	30.5	27.7
82.5°	22.2	19.4	22.2	19.4	19.4	19.4	19.4	19.4	19.4	19.4	16.6
85°	11.0	11.0	11.0	11.0	8.3	8.3	8.3	8.3	8.3	8.3	8.3
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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°	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2	1395.2
2.5°	1395.2	1389.8	1395.2	1398.1	1392.5	1395.2	1398.1	1392.5
5°	1411.9	1403.6	1409.1	1411.9	1403.6	1406.4	1409.1	1403.6
7.5°	1420.2	1411.9	1417.4	1417.4	1409.1	1414.7	1417.4	1411.9
10°	1414.7	1409.1	1414.7	1414.7	1409.1	1411.9	1414.7	1409.1
12.5°	1411.9	1406.4	1411.9	1414.7	1406.4	1411.9	1414.7	1409.1
15°	1409.1	1403.6	1409.1	1411.9	1403.6	1409.1	1411.9	1406.4
17.5°	1392.5	1389.8	1398.1	1398.1	1392.5	1398.1	1400.8	1395.2
20°	1364.8	1362.1	1370.4	1373.2	1367.6	1373.2	1375.9	1370.4
22.5°	1328.9	1326.0	1334.3	1337.2	1331.6	1337.2	1339.9	1337.2
25°	1284.6	1281.8	1290.1	1292.9	1287.3	1292.9	1295.6	1290.1
27.5°	1223.7	1220.9	1229.2	1229.2	1226.4	1231.9	1234.7	1229.2
30°	1146.1	1140.6	1148.9	1146.1	1143.3	1148.9	1148.9	1146.1
32.5°	1049.2	1043.7	1049.2	1043.7	1043.7	1046.5	1046.5	1040.9
35°	935.7	933.0	930.2	921.9	921.9	921.9	921.9	916.4
37.5°	816.7	808.4	802.9	789.0	783.4	786.3	783.4	778.0
40°	694.9	681.0	670.0	653.3	645.0	645.0	642.3	636.7
42.5°	586.9	567.5	550.9	528.8	520.5	517.7	512.2	509.4
45°	498.3	473.4	448.5	426.4	412.5	409.8	404.2	398.6
47.5°	429.1	398.6	368.2	343.3	329.4	321.1	315.6	312.8
50°	373.8	340.5	304.5	274.1	260.2	249.2	243.6	240.8
52.5°	329.4	293.4	251.9	221.5	204.9	193.8	188.3	182.7
55°	293.4	251.9	210.4	177.2	160.6	149.5	144.0	138.4
57.5°	257.5	218.7	174.4	141.1	124.6	113.5	108.0	105.2
60°	224.2	185.5	144.0	113.5	96.9	85.8	80.3	77.5
62.5°	191.0	155.0	119.1	91.4	74.8	63.6	58.2	58.2
65°	157.8	127.4	94.1	69.2	55.3	47.0	41.5	41.5
67.5°	130.1	102.4	74.8	55.3	41.5	36.0	30.5	30.5
70°	102.4	83.1	58.2	44.3	33.2	24.9	22.2	22.2
72.5°	77.5	63.6	44.3	33.2	24.9	19.4	16.6	16.6
75°	55.3	44.3	33.2	22.2	16.6	13.9	11.0	11.0
77.5°	38.8	30.5	22.2	16.6	11.0	8.3	8.3	8.3
80°	24.9	19.4	13.9	11.0	8.3	5.6	5.6	5.6
82.5°	13.9	11.0	8.3	5.6	5.6	2.7	2.7	2.7
85°	5.6	5.6	5.6	2.7	2.7	2.7	2.7	2.7
87.5°	2.7	2.7	2.7	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)