

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: P136692

Luminaire Tested: **LD6A30D010TE ERW6A30927 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136692
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 ERW6A30927 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 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2456.0 lumens
Efficiency: N/A
Efficacy: 54.1 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

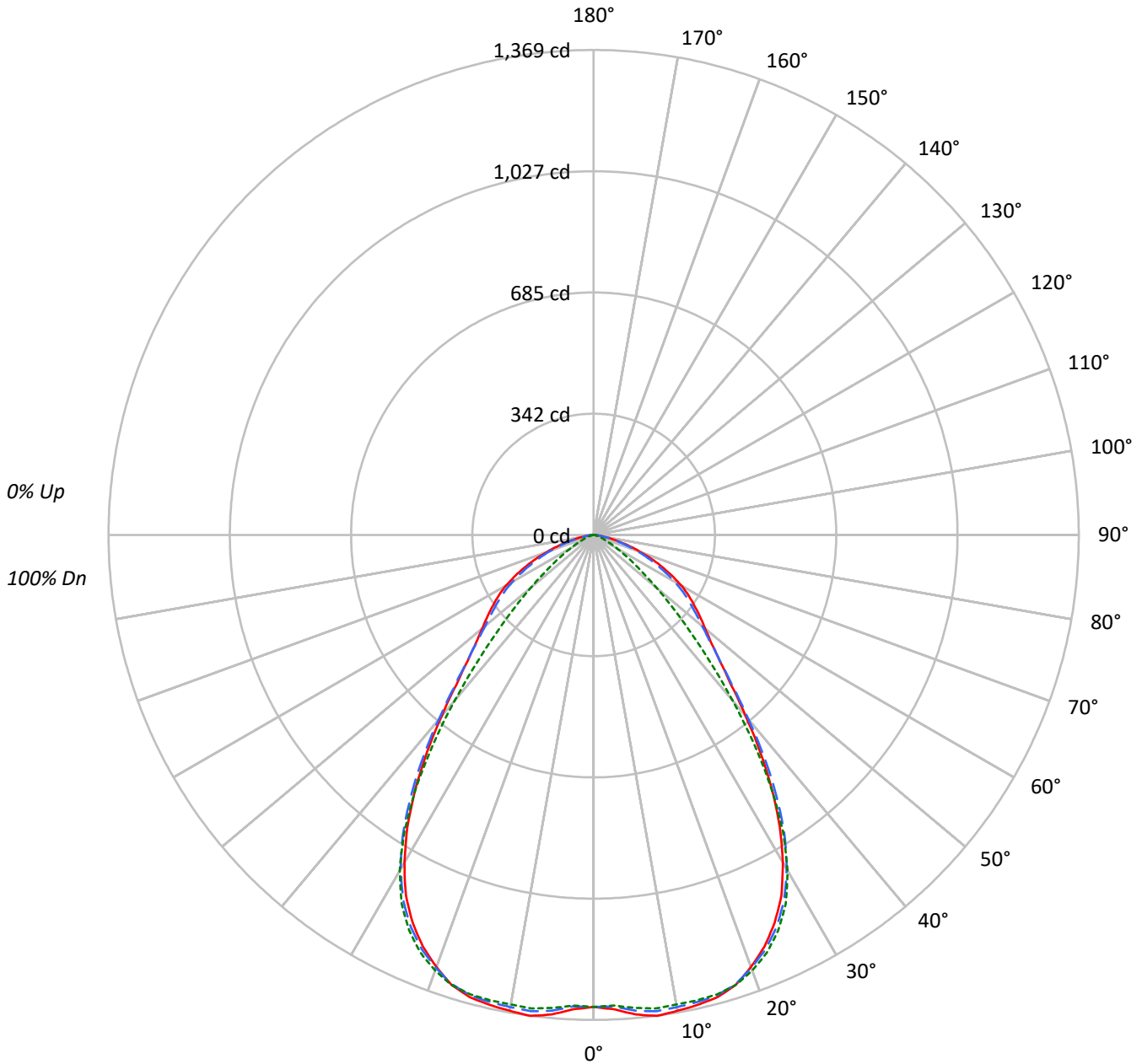
Input Watts (W): 45.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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°	86927	86927	86927
5°	88988	88293	87776
10°	90368	89665	89142
15°	91243	90885	90702
20°	90117	90305	90853
25°	86972	87915	88678
30°	80456	82053	82452
35°	69904	71584	69689
40°	56737	57870	51789
45°	46344	46584	35125
50°	41593	40517	23344
55°	39389	37581	15037
60°	37252	34499	9656
65°	32650	29794	6113
70°	26724	24206	4044
75°	19334	17317	2672
80°	12887	10933	1991
85°	7935	5914	1946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	5.2
10°-20°	378.8	15.4
20°-30°	557.6	22.7
30°-40°	548.7	22.3
40°-50°	371.1	15.1
50°-60°	249.4	10.2
60°-70°	152.2	6.2
70°-80°	60.0	2.4
80°-90°	9.2	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°	1065.3	43.4
0°-40°	1614.0	65.7
0°-60°	2234.5	91.0
0°-90°	2456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1359	1354	1348	1347	1340	130
15°	1351	1346	1346	1347	1343	380
25°	1208	1212	1221	1233	1232	552
35°	878	888	899	884	875	544
45°	502	510	505	418	381	397
55°	346	350	330	185	132	311
65°	212	213	193	78	40	210
75°	77	77	69	26	11	86
85°	11	8	8	4	3	14
90°	0	0	0	0	0	



TEST NUMBER: P136692

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1332.4	1332.4	1332.4	1332.4	1332.4	1332.4	1332.4	1332.4	1332.4	1332.4	1332.4
2.5°	1340.3	1335.0	1337.6	1335.0	1335.0	1329.8	1335.0	1335.0	1332.4	1332.4	1332.4
5°	1358.8	1356.2	1358.8	1353.5	1356.2	1350.9	1353.5	1350.9	1348.2	1348.2	1348.2
7.5°	1369.4	1364.1	1366.8	1361.5	1364.1	1358.8	1361.5	1358.8	1356.2	1356.2	1353.5
10°	1364.1	1361.5	1361.5	1358.8	1358.8	1353.5	1358.8	1356.2	1350.9	1353.5	1350.9
12.5°	1358.8	1356.2	1358.8	1353.5	1356.2	1348.2	1353.5	1350.9	1348.2	1350.9	1348.2
15°	1350.9	1348.2	1350.9	1345.6	1348.2	1342.9	1348.2	1345.6	1342.9	1345.6	1342.9
17.5°	1332.4	1329.8	1332.4	1329.8	1332.4	1324.5	1329.8	1329.8	1327.1	1329.8	1329.8
20°	1298.0	1295.4	1298.0	1295.4	1298.0	1292.7	1298.0	1298.0	1295.4	1300.7	1300.7
22.5°	1258.4	1258.4	1258.4	1258.4	1261.0	1255.7	1261.0	1261.0	1261.0	1266.3	1266.3
25°	1208.2	1210.8	1210.8	1210.8	1213.5	1210.8	1216.0	1216.0	1216.0	1221.3	1221.3
27.5°	1147.4	1147.4	1150.0	1152.7	1152.7	1150.0	1155.3	1157.9	1157.9	1163.2	1165.8
30°	1068.0	1070.7	1073.3	1076.0	1078.6	1076.0	1081.3	1081.3	1083.9	1089.2	1091.9
32.5°	978.1	983.4	983.4	988.7	991.3	988.7	996.6	994.0	996.6	1001.9	1004.6
35°	877.7	883.0	883.0	888.3	888.3	888.3	893.6	896.2	896.2	898.8	898.8
37.5°	771.9	777.2	774.6	782.5	782.5	779.9	790.5	790.5	787.8	790.5	787.8
40°	666.2	671.5	671.5	676.8	676.8	676.8	684.7	679.5	679.5	679.5	674.2
42.5°	573.6	578.9	578.9	584.2	584.2	584.2	589.5	589.5	584.2	581.6	573.6
45°	502.3	504.9	507.5	510.2	510.2	510.2	515.5	512.8	510.2	504.9	491.7
47.5°	449.4	452.0	452.0	454.7	454.7	454.7	457.3	457.3	452.0	444.2	430.9
50°	409.8	409.8	412.4	412.4	415.0	412.4	415.0	412.4	407.1	399.2	383.4
52.5°	378.1	378.1	378.1	380.7	380.7	380.7	380.7	378.1	372.8	362.2	343.7
55°	346.3	346.3	348.9	348.9	351.6	348.9	348.9	346.3	338.4	330.4	309.3
57.5°	317.3	317.3	317.3	319.9	319.9	319.9	317.3	314.6	309.3	298.7	277.6
60°	285.5	285.5	285.5	285.5	288.1	285.5	285.5	280.2	274.9	264.4	245.9
62.5°	248.5	248.5	248.5	251.2	251.2	248.5	248.5	243.2	237.9	227.3	208.8
65°	211.5	211.5	211.5	214.1	214.1	211.5	211.5	206.2	201.0	193.0	174.5
67.5°	177.1	177.1	177.1	177.1	177.1	174.5	174.5	171.8	166.5	158.6	145.4
70°	140.1	140.1	140.1	142.8	140.1	140.1	140.1	137.5	132.2	126.9	113.7
72.5°	108.4	108.4	108.4	108.4	108.4	108.4	105.7	105.7	100.4	95.1	87.3
75°	76.7	76.7	76.7	76.7	76.7	76.7	76.7	74.0	71.4	68.7	60.8
77.5°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	50.2	50.2	47.6	42.3
80°	34.3	34.3	34.3	34.3	34.3	31.7	31.7	31.7	31.7	29.1	26.5
82.5°	21.2	18.5	21.2	18.5	18.5	18.5	18.5	18.5	18.5	18.5	15.9
85°	10.6	10.6	10.6	10.6	7.9	7.9	7.9	7.9	7.9	7.9	7.9
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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°	1332.4	1332.4	1332.4	1332.4	1332.4	1332.4	1332.4	1332.4
2.5°	1332.4	1327.1	1332.4	1335.0	1329.8	1332.4	1335.0	1329.8
5°	1348.2	1340.3	1345.6	1348.2	1340.3	1342.9	1345.6	1340.3
7.5°	1356.2	1348.2	1353.5	1353.5	1345.6	1350.9	1353.5	1348.2
10°	1350.9	1345.6	1350.9	1350.9	1345.6	1348.2	1350.9	1345.6
12.5°	1348.2	1342.9	1348.2	1350.9	1342.9	1348.2	1350.9	1345.6
15°	1345.6	1340.3	1345.6	1348.2	1340.3	1345.6	1348.2	1342.9
17.5°	1329.8	1327.1	1335.0	1335.0	1329.8	1335.0	1337.6	1332.4
20°	1303.3	1300.7	1308.6	1311.3	1306.0	1311.3	1313.9	1308.6
22.5°	1269.0	1266.3	1274.2	1276.8	1271.6	1276.8	1279.5	1276.8
25°	1226.6	1224.0	1231.9	1234.6	1229.3	1234.6	1237.2	1231.9
27.5°	1168.5	1165.8	1173.8	1173.8	1171.1	1176.4	1179.0	1173.8
30°	1094.5	1089.2	1097.1	1094.5	1091.9	1097.1	1097.1	1094.5
32.5°	1001.9	996.6	1001.9	996.6	996.6	999.3	999.3	994.0
35°	893.6	890.9	888.3	880.3	880.3	880.3	880.3	875.0
37.5°	779.9	771.9	766.6	753.4	748.1	750.8	748.1	742.8
40°	663.6	650.3	639.7	623.9	616.0	616.0	613.4	608.1
42.5°	560.5	542.0	526.1	504.9	497.0	494.4	489.1	486.4
45°	475.9	452.0	428.3	407.1	393.9	391.2	385.9	380.7
47.5°	409.8	380.7	351.6	327.8	314.6	306.7	301.4	298.7
50°	356.9	325.2	290.8	261.8	248.5	237.9	232.6	230.0
52.5°	314.6	280.2	240.6	211.5	195.7	185.1	179.8	174.5
55°	280.2	240.6	201.0	169.2	153.3	142.8	137.5	132.2
57.5°	245.9	208.8	166.5	134.9	119.0	108.4	103.1	100.4
60°	214.1	177.1	137.5	108.4	92.5	82.0	76.7	74.0
62.5°	182.4	148.1	113.7	87.3	71.4	60.8	55.5	55.5
65°	150.6	121.6	89.8	66.1	52.9	44.9	39.6	39.6
67.5°	124.3	97.8	71.4	52.9	39.6	34.3	29.1	29.1
70°	97.8	79.3	55.5	42.3	31.7	23.8	21.2	21.2
72.5°	74.0	60.8	42.3	31.7	23.8	18.5	15.9	15.9
75°	52.9	42.3	31.7	21.2	15.9	13.2	10.6	10.6
77.5°	37.0	29.1	21.2	15.9	10.6	7.9	7.9	7.9
80°	23.8	18.5	13.2	10.6	7.9	5.3	5.3	5.3
82.5°	13.2	10.6	7.9	5.3	5.3	2.6	2.6	2.6
85°	5.3	5.3	5.3	2.6	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	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)