

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: P251873

Luminaire Tested: **LD4B40D010 EU4B30509024 4LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD4B40D010 EU4B30509024 4LBDW1LI
Description: PORTFOLIO 4 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2667.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.32 / 1.18
Luminous Opening: Circular (Dia: 7.42' x H: 0')
CIE Type: Direct

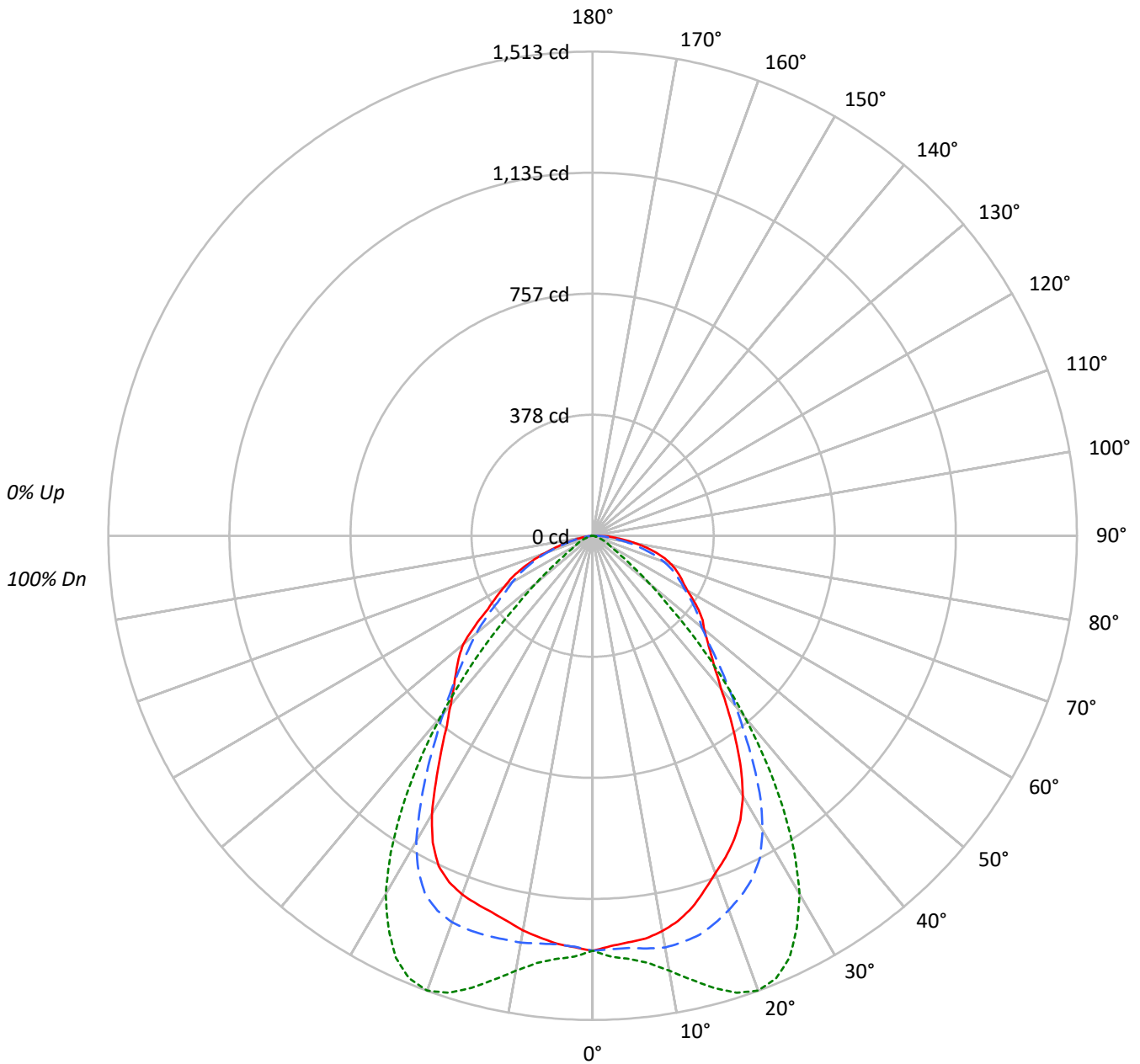
Input Watts (W): 43.02
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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				100
1	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58				58
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52				52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	47				47
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	323	323	323
5°	319	332	320
10°	317	349	317
15°	310	377	314
20°	297	401	316
25°	288	400	313
30°	270	372	289
35°	237	315	251
40°	203	241	224
45°	184	158	213
50°	176	89	205
55°	176	48	173
60°	170	32	158
65°	178	26	144
70°	191	18	118
75°	200	13	82
80°	196	8	53
85°	204	5	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	4.7
10°-20°	371.6	13.9
20°-30°	566.8	21.3
30°-40°	565.8	21.2
40°-50°	417.2	15.6
50°-60°	285.0	10.7
60°-70°	201.2	7.5
70°-80°	107.5	4.0
80°-90°	27.6	1.0
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°	1062.7	39.8
0°-40°	1628.4	61.1
0°-60°	2330.7	87.4
0°-90°	2667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2667.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1297	1297	1297	1297	1297	
5°	1276	1293	1328	1281	1280	121
15°	1202	1291	1462	1293	1218	337
25°	1046	1181	1455	1237	1139	479
35°	778	879	1037	904	825	487
45°	522	547	449	586	603	407
55°	405	389	110	362	399	360
65°	302	287	44	222	245	299
75°	208	170	14	77	85	216
85°	71	46	2	10	0	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8	1296.8
2.5°	1283.3	1291.0	1292.9	1306.4	1316.1	1304.5	1285.2	1285.2	1287.2
5°	1275.6	1285.2	1292.9	1316.1	1327.6	1308.4	1281.4	1277.5	1279.5
7.5°	1269.8	1283.3	1300.7	1335.3	1346.9	1321.9	1285.2	1269.8	1266.0
10°	1254.4	1273.7	1306.4	1356.5	1379.7	1348.8	1291.0	1262.1	1252.5
12.5°	1233.2	1256.3	1300.7	1379.7	1420.1	1373.9	1291.0	1248.6	1233.2
15°	1202.4	1227.4	1291.0	1398.9	1462.5	1400.9	1292.9	1235.1	1217.8
17.5°	1161.9	1192.7	1269.8	1408.6	1497.2	1425.9	1291.0	1225.5	1206.2
20°	1121.5	1158.1	1244.8	1408.6	1512.6	1435.5	1285.2	1215.9	1192.7
22.5°	1086.8	1123.4	1215.9	1391.2	1497.2	1424.0	1267.9	1198.5	1171.6
25°	1046.3	1084.8	1181.2	1354.6	1454.8	1389.3	1237.1	1163.8	1138.8
27.5°	1000.1	1042.5	1133.0	1296.8	1381.6	1325.7	1179.3	1108.0	1081.0
30°	938.4	976.9	1061.7	1213.9	1292.9	1239.0	1102.2	1029.0	1003.9
32.5°	863.3	897.9	976.9	1113.7	1173.5	1129.2	1002.0	940.3	911.4
35°	778.5	809.3	878.7	986.6	1036.7	1009.7	903.7	845.9	824.7
37.5°	699.5	722.6	780.4	859.4	890.2	872.9	807.4	765.0	747.6
40°	624.3	647.4	693.7	732.2	739.9	745.7	726.4	699.5	689.8
42.5°	566.5	587.7	616.6	612.8	589.6	622.4	653.2	649.4	641.7
45°	522.2	537.6	547.2	489.4	449.0	502.9	585.8	607.0	603.1
47.5°	485.6	493.3	487.5	391.2	317.9	391.2	526.0	568.4	568.4
50°	454.7	460.5	445.1	325.6	229.3	314.1	474.0	520.3	528.0
52.5°	433.6	435.5	416.2	275.5	158.0	248.6	418.1	458.6	464.4
55°	404.6	406.6	389.2	238.9	109.8	196.5	362.3	398.9	398.9
57.5°	371.9	375.7	358.4	208.1	77.1	163.8	319.9	354.5	356.5
60°	341.1	343.0	331.4	185.0	63.6	140.7	289.0	317.9	317.9
62.5°	319.9	321.8	308.3	171.5	54.0	123.3	256.3	283.3	285.2
65°	302.5	302.5	287.1	158.0	44.3	104.1	221.6	244.7	244.7
67.5°	283.3	279.4	264.0	140.7	34.7	84.8	186.9	204.3	202.3
70°	262.1	256.3	237.0	121.4	25.0	67.4	146.4	159.9	161.9
72.5°	237.0	229.3	204.3	100.2	19.3	50.1	107.9	119.5	119.5
75°	208.1	198.5	169.6	79.0	13.5	34.7	77.1	84.8	84.8
77.5°	173.4	163.8	134.9	57.8	9.6	23.1	52.0	57.8	57.8
80°	136.8	127.2	100.2	40.5	5.8	13.5	32.8	38.5	36.6
82.5°	102.1	92.5	67.4	25.0	3.9	7.7	21.2	21.2	19.3
85°	71.3	65.5	46.2	15.4	1.9	3.9	9.6	3.9	0.0
87.5°	48.2	42.4	28.9	7.7	0.0	1.9	1.9	0.0	0.0
90°	0.0	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)