

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: P251855

Luminaire Tested: **LD4B30D010 EU4B30508027 4LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P251855
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: LD4B30D010 EU4B30508027 4LBDW1LI
Description: PORTFOLIO 4 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2521.0 lumens
Efficiency: N/A
Efficacy: 90.0 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

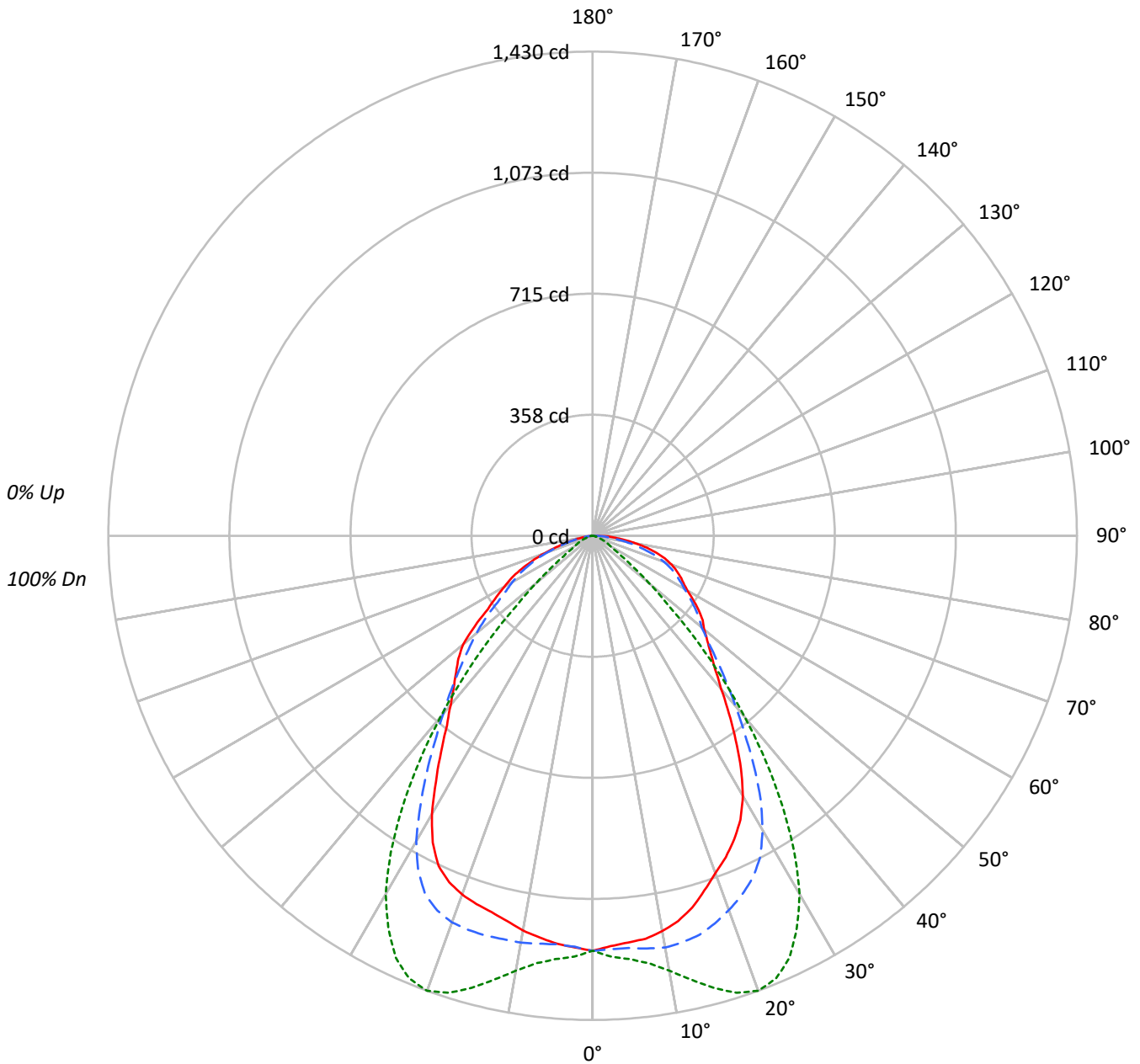
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	305	305	305
5°	302	314	302
10°	300	330	300
15°	293	357	297
20°	281	379	299
25°	272	378	296
30°	255	352	273
35°	224	298	237
40°	192	227	212
45°	174	150	201
50°	167	84	193
55°	166	45	164
60°	161	30	150
65°	169	25	136
70°	180	17	111
75°	189	12	77
80°	186	8	50
85°	193	5	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	4.7
10°-20°	351.3	13.9
20°-30°	535.8	21.3
30°-40°	534.8	21.2
40°-50°	394.4	15.6
50°-60°	269.4	10.7
60°-70°	190.2	7.5
70°-80°	101.6	4.0
80°-90°	26.1	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°	1004.5	39.8
0°-40°	1539.3	61.1
0°-60°	2203.1	87.4
0°-90°	2521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2521.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1226	1226	1226	1226	1226	
5°	1206	1222	1255	1211	1209	115
15°	1137	1220	1382	1222	1151	319
25°	989	1116	1375	1169	1076	453
35°	736	831	980	854	780	460
45°	494	517	424	554	570	385
55°	382	368	104	342	377	340
65°	286	271	42	210	231	283
75°	197	160	13	73	80	204
85°	67	44	2	9	0	75
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°	1225.8	1225.8	1225.8	1225.8	1225.8	1225.8	1225.8	1225.8	1225.8
2.5°	1213.1	1220.3	1222.2	1234.9	1244.0	1233.1	1214.9	1214.9	1216.7
5°	1205.8	1214.9	1222.2	1244.0	1255.0	1236.7	1211.2	1207.6	1209.4
7.5°	1200.3	1213.1	1229.5	1262.2	1273.2	1249.5	1214.9	1200.3	1196.7
10°	1185.7	1204.0	1234.9	1282.3	1304.1	1275.0	1220.3	1193.0	1183.9
12.5°	1165.7	1187.6	1229.5	1304.1	1342.4	1298.7	1220.3	1180.3	1165.7
15°	1136.6	1160.2	1220.3	1322.3	1382.5	1324.2	1222.2	1167.5	1151.1
17.5°	1098.3	1127.5	1200.3	1331.5	1415.2	1347.8	1220.3	1158.4	1140.2
20°	1060.1	1094.7	1176.6	1331.5	1429.8	1357.0	1214.9	1149.3	1127.5
22.5°	1027.3	1061.9	1149.3	1315.1	1415.2	1346.0	1198.5	1132.9	1107.4
25°	989.0	1025.5	1116.5	1280.5	1375.2	1313.2	1169.3	1100.1	1076.5
27.5°	945.3	985.4	1071.0	1225.8	1306.0	1253.1	1114.7	1047.3	1021.8
30°	887.0	923.5	1003.6	1147.5	1222.2	1171.2	1041.8	972.6	949.0
32.5°	816.0	848.8	923.5	1052.8	1109.2	1067.3	947.1	888.8	861.5
35°	735.9	765.0	830.6	932.6	979.9	954.4	854.2	799.6	779.6
37.5°	661.2	683.0	737.7	812.4	841.5	825.1	763.2	723.1	706.7
40°	590.1	612.0	655.7	692.1	699.4	704.9	686.7	661.2	652.1
42.5°	535.5	555.5	582.9	579.2	557.4	588.3	617.5	613.8	606.5
45°	493.6	508.2	517.3	462.6	424.4	475.4	553.7	573.7	570.1
47.5°	459.0	466.3	460.8	369.7	300.5	369.7	497.2	537.3	537.3
50°	429.9	435.3	420.7	307.8	216.7	296.9	448.1	491.8	499.1
52.5°	409.8	411.6	393.4	260.5	149.4	235.0	395.2	433.5	439.0
55°	382.5	384.3	367.9	225.9	103.8	185.8	342.4	377.0	377.0
57.5°	351.5	355.2	338.8	196.7	72.9	154.8	302.4	335.1	337.0
60°	322.4	324.2	313.3	174.9	60.1	133.0	273.2	300.5	300.5
62.5°	302.4	304.2	291.4	162.1	51.0	116.6	242.2	267.7	269.6
65°	286.0	286.0	271.4	149.4	41.9	98.4	209.5	231.3	231.3
67.5°	267.7	264.1	249.5	133.0	32.8	80.1	176.7	193.1	191.2
70°	247.7	242.2	224.0	114.7	23.7	63.7	138.4	151.2	153.0
72.5°	224.0	216.7	193.1	94.7	18.2	47.4	102.0	112.9	112.9
75°	196.7	187.6	160.3	74.7	12.7	32.8	72.9	80.1	80.1
77.5°	163.9	154.8	127.5	54.6	9.1	21.9	49.2	54.6	54.6
80°	129.3	120.2	94.7	38.2	5.5	12.7	31.0	36.4	34.6
82.5°	96.5	87.4	63.7	23.7	3.6	7.3	20.0	20.0	18.2
85°	67.4	61.9	43.7	14.6	1.8	3.6	9.1	3.6	0.0
87.5°	45.5	40.1	27.3	7.3	0.0	1.8	1.8	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)