

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: P136666

Luminaire Tested: **LD6A20D010TE ERW6A20835 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136666
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: LD6A20D010TE ERW6A20835 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 3500K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2382.0 lumens
Efficiency: N/A
Efficacy: 72.6 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

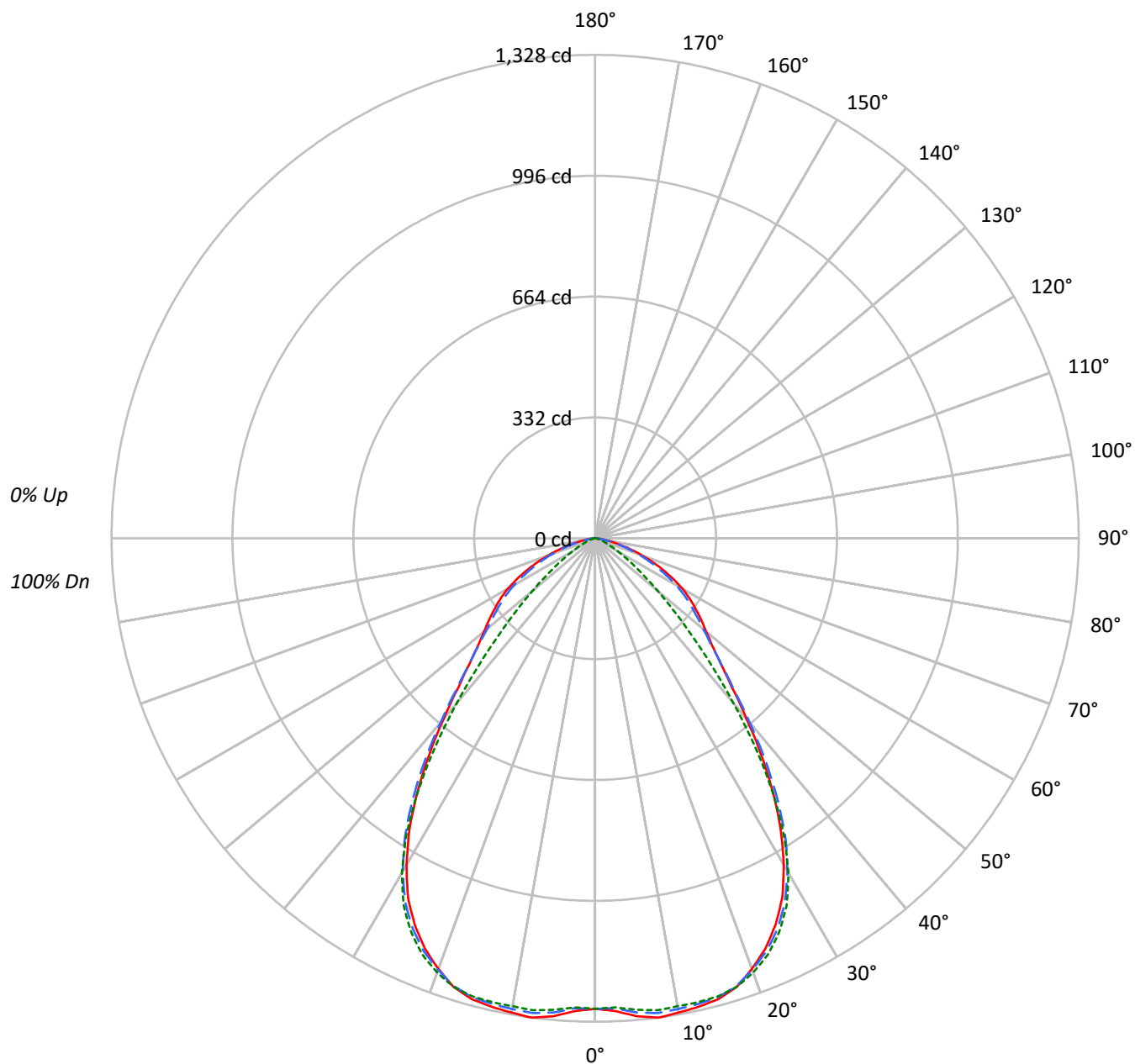
Input Watts (W): 32.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101	109	105	102	100		101	99	96		97	95	94		94	92	91
2	103	97	91	87	101	95	90	86		91	87	84		88	85	82		85	83	80
3	96	87	81	75	94	86	80	75		83	78	73		80	76	72		78	74	71
4	89	79	72	66	87	78	71	66		75	70	65		73	68	64		71	67	63
5	83	72	64	59	81	71	64	59		69	63	58		67	62	57		65	61	57
6	77	66	58	53	76	65	58	53		63	57	52		62	56	52		60	55	51
7	72	61	53	48	71	60	53	48		58	52	47		57	51	47		56	51	47
8	68	56	49	43	67	55	48	43		54	48	43		53	47	43		52	47	43
9	64	52	45	40	63	51	44	40		50	44	39		49	43	39		48	43	39
10	60	48	41	37	59	48	41	36		47	41	36		46	40	36		45	40	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	84310	84310	84310
5°	86309	85635	85137
10°	87645	86969	86459
15°	88494	88149	87974
20°	87402	87583	88118
25°	84345	85274	86008
30°	78038	79582	79966
35°	67793	69434	67594
40°	55025	56116	50222
45°	44951	45182	34064
50°	40335	39299	22644
55°	38206	36455	14582
60°	36130	33455	9369
65°	31662	28899	5943
70°	25923	23481	3910
75°	18754	16813	2596
80°	12511	10595	1916
85°	7710	5764	1946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	5.2
10°-20°	367.4	15.4
20°-30°	540.8	22.7
30°-40°	532.2	22.3
40°-50°	359.9	15.1
50°-60°	241.9	10.2
60°-70°	147.6	6.2
70°-80°	58.2	2.4
80°-90°	9.0	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°	1033.2	43.4
0°-40°	1565.4	65.7
0°-60°	2167.2	91.0
0°-90°	2382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1318	1313	1308	1306	1300	126
15°	1310	1305	1305	1306	1302	368
25°	1172	1176	1185	1196	1195	535
35°	851	862	872	858	849	528
45°	487	495	490	405	369	385
55°	336	340	320	180	128	301
65°	205	206	187	76	38	204
75°	74	74	67	26	10	83
85°	10	8	8	4	3	14
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°	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3
2.5°	1300.0	1294.8	1297.4	1294.8	1294.8	1289.7	1294.8	1294.8	1292.3	1292.3	1292.3
5°	1317.9	1315.3	1317.9	1312.8	1315.3	1310.2	1312.8	1310.2	1307.6	1307.6	1307.6
7.5°	1328.2	1323.0	1325.6	1320.5	1323.0	1317.9	1320.5	1317.9	1315.3	1315.3	1312.8
10°	1323.0	1320.5	1320.5	1317.9	1317.9	1312.8	1317.9	1315.3	1310.2	1312.8	1310.2
12.5°	1317.9	1315.3	1317.9	1312.8	1315.3	1307.6	1312.8	1310.2	1307.6	1310.2	1307.6
15°	1310.2	1307.6	1310.2	1305.1	1307.6	1302.5	1307.6	1305.1	1302.5	1305.1	1302.5
17.5°	1292.3	1289.7	1292.3	1289.7	1292.3	1284.6	1289.7	1289.7	1287.1	1289.7	1289.7
20°	1258.9	1256.4	1258.9	1256.4	1258.9	1253.8	1258.9	1258.9	1256.4	1261.5	1261.5
22.5°	1220.5	1220.5	1220.5	1220.5	1223.0	1217.9	1223.0	1223.0	1223.0	1228.2	1228.2
25°	1171.7	1174.3	1174.3	1174.3	1176.9	1174.3	1179.4	1179.4	1179.4	1184.6	1184.6
27.5°	1112.8	1112.8	1115.3	1117.9	1117.9	1115.3	1120.5	1123.0	1123.0	1128.2	1130.7
30°	1035.9	1038.4	1041.0	1043.5	1046.1	1043.5	1048.7	1048.7	1051.2	1056.4	1058.9
32.5°	948.7	953.8	953.8	958.9	961.5	958.9	966.6	964.1	966.6	971.8	974.3
35°	851.2	856.4	856.4	861.5	861.5	861.5	866.6	869.2	869.2	871.8	871.8
37.5°	748.7	753.8	751.3	758.9	758.9	756.4	766.6	766.6	764.1	766.6	764.1
40°	646.1	651.3	651.3	656.4	656.4	656.4	664.1	658.9	658.9	658.9	653.8
42.5°	556.4	561.5	561.5	566.6	566.6	566.6	571.8	571.8	566.6	564.1	556.4
45°	487.2	489.7	492.3	494.9	494.9	494.9	500.0	497.4	494.9	489.7	476.9
47.5°	435.9	438.4	438.4	441.0	441.0	441.0	443.6	443.6	438.4	430.8	417.9
50°	397.4	397.4	400.0	400.0	402.5	400.0	402.5	400.0	394.9	387.2	371.8
52.5°	366.7	366.7	366.7	369.2	369.2	369.2	369.2	366.7	361.5	351.3	333.3
55°	335.9	335.9	338.4	338.4	341.0	338.4	338.4	335.9	328.2	320.5	300.0
57.5°	307.7	307.7	307.7	310.2	310.2	310.2	307.7	305.1	300.0	289.7	269.2
60°	276.9	276.9	276.9	276.9	279.5	276.9	276.9	271.8	266.7	256.4	238.5
62.5°	241.0	241.0	241.0	243.6	243.6	241.0	241.0	235.9	230.8	220.5	202.6
65°	205.1	205.1	205.1	207.7	207.7	205.1	205.1	200.0	194.9	187.2	169.2
67.5°	171.8	171.8	171.8	171.8	171.8	169.2	169.2	166.7	161.5	153.8	141.0
70°	135.9	135.9	135.9	138.5	135.9	135.9	135.9	133.3	128.2	123.1	110.3
72.5°	105.1	105.1	105.1	105.1	105.1	105.1	102.6	102.6	97.4	92.3	84.6
75°	74.4	74.4	74.4	74.4	74.4	74.4	74.4	71.8	69.2	66.7	59.0
77.5°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	48.7	48.7	46.2	41.0
80°	33.3	33.3	33.3	33.3	33.3	30.8	30.8	30.8	30.8	28.2	25.6
82.5°	20.5	17.9	20.5	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15.4
85°	10.3	10.3	10.3	10.3	7.7	7.7	7.7	7.7	7.7	7.7	7.7
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°	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3	1292.3
2.5°	1292.3	1287.1	1292.3	1294.8	1289.7	1292.3	1294.8	1289.7
5°	1307.6	1300.0	1305.1	1307.6	1300.0	1302.5	1305.1	1300.0
7.5°	1315.3	1307.6	1312.8	1312.8	1305.1	1310.2	1312.8	1307.6
10°	1310.2	1305.1	1310.2	1310.2	1305.1	1307.6	1310.2	1305.1
12.5°	1307.6	1302.5	1307.6	1310.2	1302.5	1307.6	1310.2	1305.1
15°	1305.1	1300.0	1305.1	1307.6	1300.0	1305.1	1307.6	1302.5
17.5°	1289.7	1287.1	1294.8	1294.8	1289.7	1294.8	1297.4	1292.3
20°	1264.1	1261.5	1269.2	1271.7	1266.6	1271.7	1274.3	1269.2
22.5°	1230.7	1228.2	1235.9	1238.4	1233.3	1238.4	1241.0	1238.4
25°	1189.7	1187.1	1194.8	1197.4	1192.3	1197.4	1200.0	1194.8
27.5°	1133.3	1130.7	1138.4	1138.4	1135.9	1141.0	1143.5	1138.4
30°	1061.5	1056.4	1064.1	1061.5	1058.9	1064.1	1064.1	1061.5
32.5°	971.8	966.6	971.8	966.6	966.6	969.2	969.2	964.1
35°	866.6	864.1	861.5	853.8	853.8	853.8	853.8	848.7
37.5°	756.4	748.7	743.6	730.7	725.6	728.2	725.6	720.5
40°	643.6	630.7	620.5	605.1	597.4	597.4	594.8	589.7
42.5°	543.6	525.6	510.2	489.7	482.0	479.5	474.3	471.8
45°	461.5	438.4	415.4	394.9	382.0	379.5	374.3	369.2
47.5°	397.4	369.2	341.0	317.9	305.1	297.4	292.3	289.7
50°	346.1	315.4	282.0	253.8	241.0	230.8	225.6	223.1
52.5°	305.1	271.8	233.3	205.1	189.7	179.5	174.4	169.2
55°	271.8	233.3	194.9	164.1	148.7	138.5	133.3	128.2
57.5°	238.5	202.6	161.5	130.8	115.4	105.1	100.0	97.4
60°	207.7	171.8	133.3	105.1	89.7	79.5	74.4	71.8
62.5°	176.9	143.6	110.3	84.6	69.2	59.0	53.8	53.8
65°	146.1	117.9	87.2	64.1	51.3	43.6	38.5	38.5
67.5°	120.5	94.9	69.2	51.3	38.5	33.3	28.2	28.2
70°	94.9	76.9	53.8	41.0	30.8	23.1	20.5	20.5
72.5°	71.8	59.0	41.0	30.8	23.1	17.9	15.4	15.4
75°	51.3	41.0	30.8	20.5	15.4	12.8	10.3	10.3
77.5°	35.9	28.2	20.5	15.4	10.3	7.7	7.7	7.7
80°	23.1	17.9	12.8	10.3	7.7	5.1	5.1	5.1
82.5°	12.8	10.3	7.7	5.1	5.1	2.6	2.6	2.6
85°	5.1	5.1	5.1	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)