

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: P136669

Luminaire Tested: **LD6A20D010TE ERW6A20930 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136669
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 ERW6A20930 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: 2140.9 lumens
Efficiency: N/A
Efficacy: 65.3 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

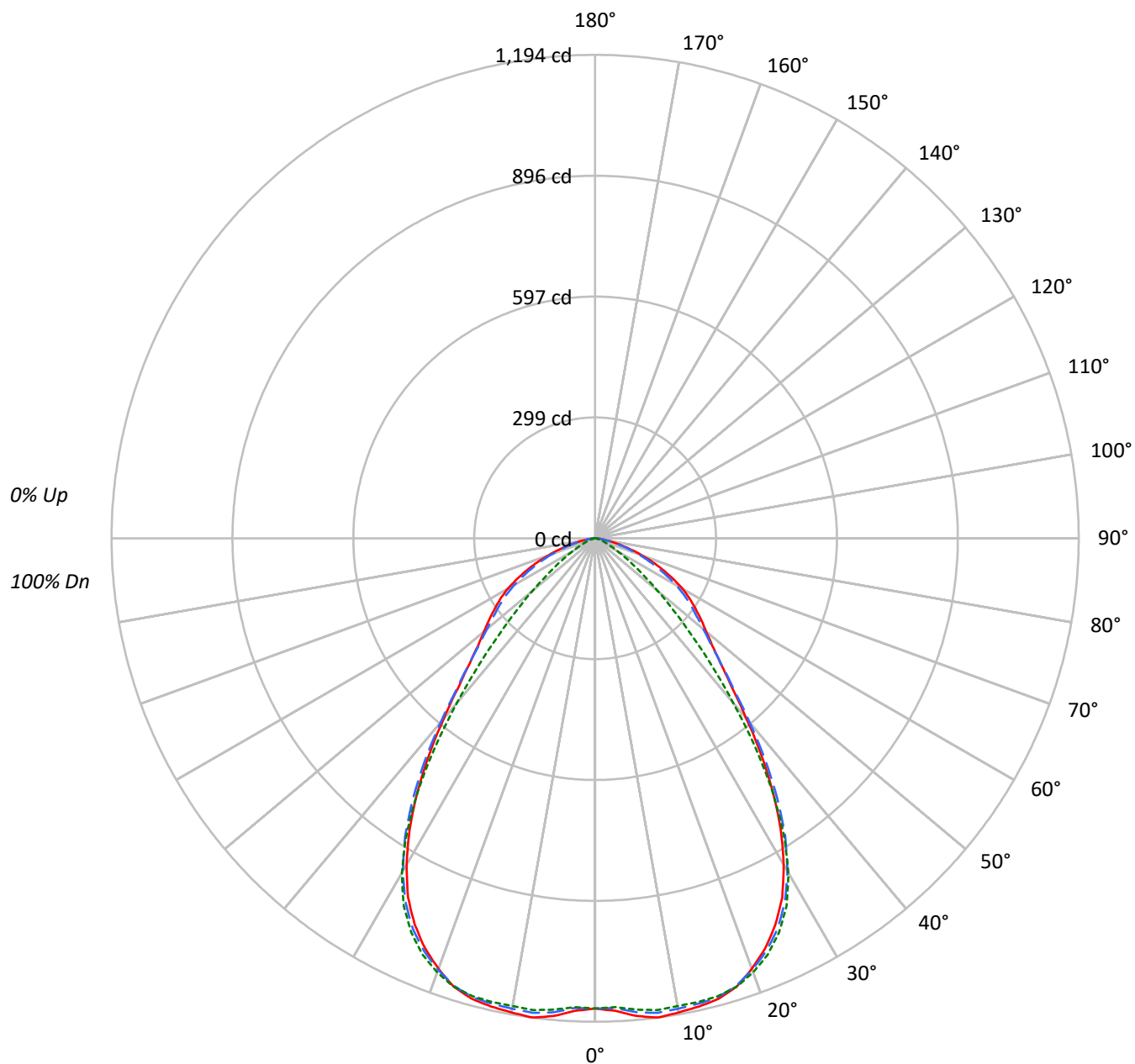
Input Watts (W): 32.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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			100
1	111	108	104	101	109	105	102	100		101	99	96			97	95	94			89
2	103	97	91	87	101	95	90	86		91	87	84			88	85	82			78
3	96	87	81	75	94	86	80	75		83	78	73			80	76	72			69
4	89	79	72	66	87	78	71	66		75	70	65			73	68	64			61
5	83	72	64	59	81	71	64	59		69	63	58			67	62	57			55
6	77	66	58	53	76	65	58	53		63	57	52			62	56	52			50
7	72	61	53	48	71	60	53	48		58	52	47			57	51	47			45
8	68	56	49	43	67	55	48	43		54	48	43			53	47	43			41
9	64	52	45	40	63	51	44	40		50	44	39			49	43	39			37
10	60	48	41	37	59	48	41	36		47	41	36			46	40	36			34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	75770	75770	75770
5°	77573	76970	76518
10°	78774	78165	77708
15°	79538	79227	79071
20°	78557	78717	79196
25°	75807	76635	77305
30°	70135	71529	71876
35°	60936	62401	60753
40°	49464	50444	45146
45°	40402	40615	30613
50°	36255	35321	20340
55°	34339	32758	13103
60°	32464	30063	8416
65°	28466	25981	5341
70°	23310	21097	3510
75°	16838	15099	2319
80°	11271	9543	1728
85°	6887	5165	1722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	5.2
10°-20°	330.2	15.4
20°-30°	486.1	22.7
30°-40°	478.3	22.3
40°-50°	323.5	15.1
50°-60°	217.4	10.2
60°-70°	132.7	6.2
70°-80°	52.3	2.4
80°-90°	8.1	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°	928.6	43.4
0°-40°	1407.0	65.7
0°-60°	1947.8	91.0
0°-90°	2140.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1184	1180	1175	1174	1168	113
15°	1178	1173	1173	1174	1171	331
25°	1053	1057	1065	1075	1074	481
35°	765	774	784	771	763	474
45°	438	445	440	364	332	346
55°	302	305	288	161	115	271
65°	184	186	168	68	35	183
75°	67	67	60	23	9	75
85°	9	7	7	3	2	12
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°	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4
2.5°	1168.4	1163.7	1166.1	1163.7	1163.7	1159.1	1163.7	1163.7	1161.4	1161.4	1161.4
5°	1184.5	1182.2	1184.5	1179.9	1182.2	1177.6	1179.9	1177.6	1175.3	1175.3	1175.3
7.5°	1193.7	1189.1	1191.4	1186.8	1189.1	1184.5	1186.8	1184.5	1182.2	1182.2	1179.9
10°	1189.1	1186.8	1186.8	1184.5	1184.5	1179.9	1184.5	1182.2	1177.6	1179.9	1177.6
12.5°	1184.5	1182.2	1184.5	1179.9	1182.2	1175.3	1179.9	1177.6	1175.3	1177.6	1175.3
15°	1177.6	1175.3	1177.6	1173.0	1175.3	1170.7	1175.3	1173.0	1170.7	1173.0	1170.7
17.5°	1161.4	1159.1	1161.4	1159.1	1161.4	1154.5	1159.1	1159.1	1156.8	1159.1	1159.1
20°	1131.5	1129.2	1131.5	1129.2	1131.5	1126.9	1131.5	1131.5	1129.2	1133.8	1133.8
22.5°	1096.9	1096.9	1096.9	1096.9	1099.2	1094.6	1099.2	1099.2	1099.2	1103.8	1103.8
25°	1053.1	1055.4	1055.4	1055.4	1057.7	1055.4	1060.0	1060.0	1060.0	1064.6	1064.6
27.5°	1000.1	1000.1	1002.4	1004.7	1004.7	1002.4	1007.0	1009.3	1009.3	1013.9	1016.2
30°	931.0	933.3	935.6	938.0	940.3	938.0	942.6	942.6	944.9	949.5	951.8
32.5°	852.7	857.3	857.3	861.9	864.2	861.9	868.8	866.5	868.8	873.4	875.7
35°	765.1	769.7	769.7	774.3	774.3	774.3	778.9	781.2	781.2	783.5	783.5
37.5°	672.9	677.5	675.2	682.1	682.1	679.8	689.0	689.0	686.7	689.0	686.7
40°	580.8	585.4	585.4	590.0	590.0	590.0	596.8	592.3	592.3	592.3	587.7
42.5°	500.1	504.7	504.7	509.3	509.3	509.3	513.9	513.9	509.3	507.0	500.1
45°	437.9	440.2	442.5	444.8	444.8	444.8	449.4	447.1	444.8	440.2	428.6
47.5°	391.8	394.1	394.1	396.4	396.4	396.4	398.7	398.7	394.1	387.1	375.6
50°	357.2	357.2	359.5	359.5	361.8	359.5	361.8	359.5	354.9	348.0	334.1
52.5°	329.5	329.5	329.5	331.8	331.8	331.8	331.8	329.5	324.9	315.7	299.6
55°	301.9	301.9	304.2	304.2	306.5	304.2	304.2	301.9	294.9	288.0	269.6
57.5°	276.5	276.5	276.5	278.8	278.8	278.8	276.5	274.2	269.6	260.4	241.9
60°	248.8	248.8	248.8	248.8	251.2	248.8	248.8	244.2	239.6	230.4	214.3
62.5°	216.6	216.6	216.6	218.9	218.9	216.6	216.6	212.0	207.4	198.2	182.1
65°	184.4	184.4	184.4	186.7	186.7	184.4	184.4	179.8	175.2	168.3	152.1
67.5°	154.4	154.4	154.4	154.4	154.4	152.1	152.1	149.8	145.2	138.3	126.8
70°	122.2	122.2	122.2	124.5	122.2	122.2	122.2	119.9	115.2	110.6	99.1
72.5°	94.5	94.5	94.5	94.5	94.5	94.5	92.2	92.2	87.6	83.0	76.1
75°	66.8	66.8	66.8	66.8	66.8	66.8	66.8	64.5	62.2	59.9	53.0
77.5°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	43.8	43.8	41.5	36.9
80°	30.0	30.0	30.0	30.0	30.0	27.7	27.7	27.7	27.7	25.4	23.0
82.5°	18.4	16.1	18.4	16.1	16.1	16.1	16.1	16.1	16.1	16.1	13.8
85°	9.2	9.2	9.2	9.2	6.9	6.9	6.9	6.9	6.9	6.9	6.9
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4
2.5°	1161.4	1156.8	1161.4	1163.7	1159.1	1161.4	1163.7	1159.1
5°	1175.3	1168.4	1173.0	1175.3	1168.4	1170.7	1173.0	1168.4
7.5°	1182.2	1175.3	1179.9	1179.9	1173.0	1177.6	1179.9	1175.3
10°	1177.6	1173.0	1177.6	1177.6	1173.0	1175.3	1177.6	1173.0
12.5°	1175.3	1170.7	1175.3	1177.6	1170.7	1175.3	1177.6	1173.0
15°	1173.0	1168.4	1173.0	1175.3	1168.4	1173.0	1175.3	1170.7
17.5°	1159.1	1156.8	1163.7	1163.7	1159.1	1163.7	1166.1	1161.4
20°	1136.1	1133.8	1140.7	1143.0	1138.4	1143.0	1145.3	1140.7
22.5°	1106.1	1103.8	1110.7	1113.0	1108.4	1113.0	1115.3	1113.0
25°	1069.2	1066.9	1073.9	1076.2	1071.5	1076.2	1078.5	1073.9
27.5°	1018.5	1016.2	1023.1	1023.1	1020.8	1025.4	1027.8	1023.1
30°	954.1	949.5	956.4	954.1	951.8	956.4	956.4	954.1
32.5°	873.4	868.8	873.4	868.8	868.8	871.1	871.1	866.5
35°	778.9	776.6	774.3	767.4	767.4	767.4	767.4	762.8
37.5°	679.8	672.9	668.3	656.7	652.1	654.4	652.1	647.5
40°	578.5	566.9	557.7	543.9	537.0	537.0	534.7	530.1
42.5°	488.6	472.4	458.6	440.2	433.2	430.9	426.3	424.0
45°	414.8	394.1	373.3	354.9	343.4	341.0	336.4	331.8
47.5°	357.2	331.8	306.5	285.7	274.2	267.3	262.7	260.4
50°	311.1	283.4	253.5	228.1	216.6	207.4	202.7	200.4
52.5°	274.2	244.2	209.7	184.4	170.6	161.4	156.7	152.1
55°	244.2	209.7	175.2	147.5	133.7	124.5	119.9	115.2
57.5°	214.3	182.1	145.2	117.6	103.7	94.5	89.9	87.6
60°	186.7	154.4	119.9	94.5	80.7	71.5	66.8	64.5
62.5°	159.0	129.1	99.1	76.1	62.2	53.0	48.4	48.4
65°	131.4	106.0	78.4	57.6	46.1	39.2	34.6	34.6
67.5°	108.3	85.3	62.2	46.1	34.6	30.0	25.4	25.4
70°	85.3	69.2	48.4	36.9	27.7	20.7	18.4	18.4
72.5°	64.5	53.0	36.9	27.7	20.7	16.1	13.8	13.8
75°	46.1	36.9	27.7	18.4	13.8	11.5	9.2	9.2
77.5°	32.3	25.4	18.4	13.8	9.2	6.9	6.9	6.9
80°	20.7	16.1	11.5	9.2	6.9	4.6	4.6	4.6
82.5°	11.5	9.2	6.9	4.6	4.6	2.3	2.3	2.3
85°	4.6	4.6	4.6	2.3	2.3	2.3	2.3	2.3
87.5°	2.3	2.3	2.3	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)