

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: P136688

Luminaire Tested: **LD6A30D010TE ERW6A30827 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136688
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 ERW6A30827 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: 2690.0 lumens
Efficiency: N/A
Efficacy: 59.3 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

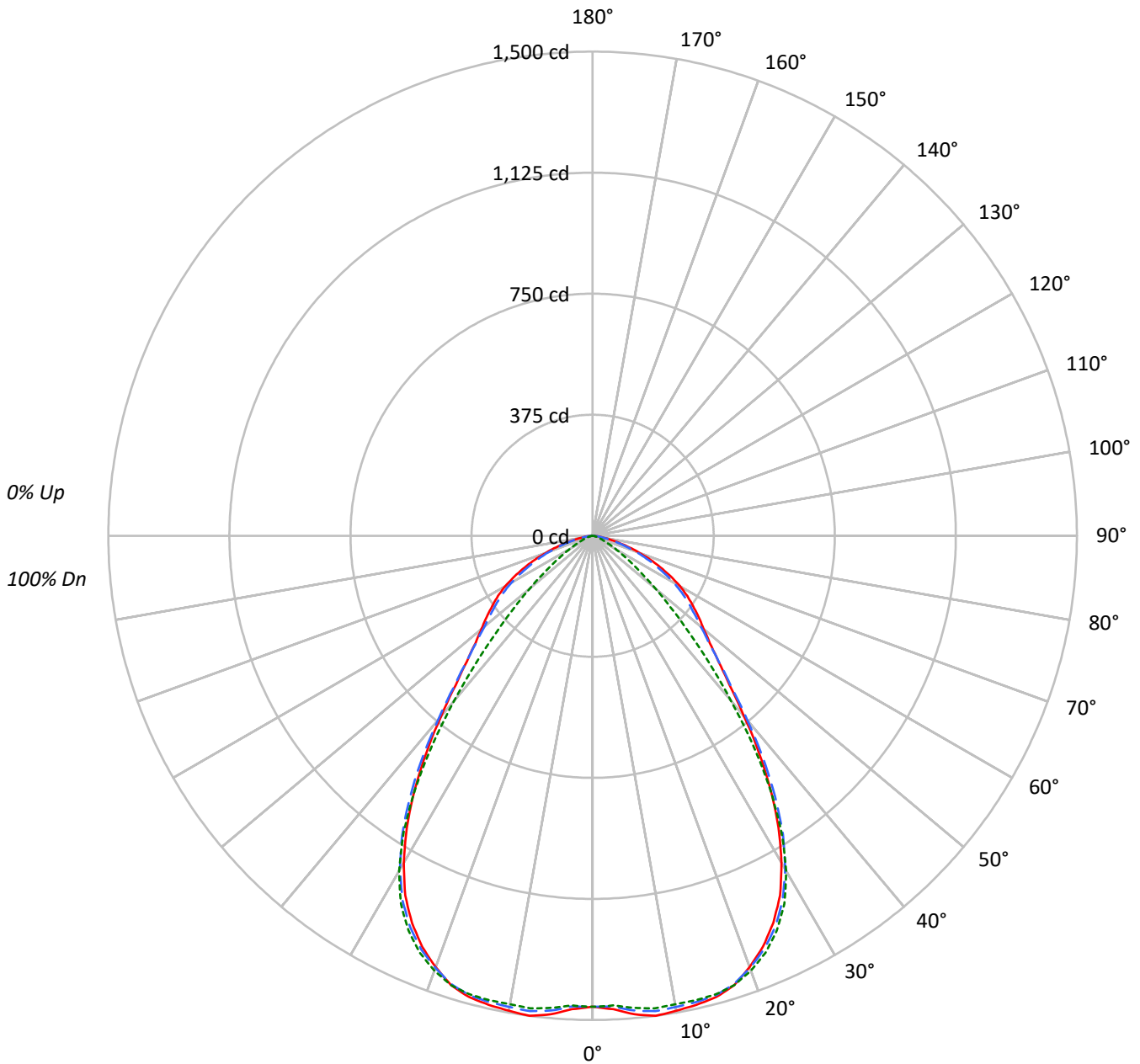
Input Watts (W): 45.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	95212	95212	95212
5°	97469	96709	96139
10°	98980	98211	97635
15°	99935	99543	99348
20°	98705	98907	99511
25°	95258	96294	97129
30°	88125	89873	90310
35°	76562	78410	76331
40°	62145	63380	56720
45°	50764	51022	38474
50°	45552	44374	25567
55°	43143	41164	16470
60°	40801	37787	10582
65°	35753	32634	6700
70°	29280	26514	4425
75°	21174	18981	2924
80°	14127	11985	2179
85°	8683	6512	2171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	5.2
10°-20°	414.9	15.4
20°-30°	610.7	22.7
30°-40°	601.0	22.3
40°-50°	406.4	15.1
50°-60°	273.2	10.2
60°-70°	166.7	6.2
70°-80°	65.7	2.4
80°-90°	10.1	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°	1166.8	43.4
0°-40°	1767.8	65.7
0°-60°	2447.4	91.0
0°-90°	2690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2690.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1488	1482	1477	1475	1468	142
15°	1480	1474	1474	1475	1471	416
25°	1323	1328	1338	1351	1349	605
35°	961	973	984	969	958	596
45°	550	559	553	458	417	435
55°	379	384	362	203	145	340
65°	232	233	211	85	43	230
75°	84	84	75	29	12	94
85°	12	9	9	4	3	15
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°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1468.0	1462.2	1465.1	1462.2	1462.2	1456.5	1462.2	1462.2	1459.4	1459.4	1459.4
5°	1488.3	1485.4	1488.3	1482.5	1485.4	1479.6	1482.5	1479.6	1476.7	1476.7	1476.7
7.5°	1499.9	1494.1	1497.0	1491.2	1494.1	1488.3	1491.2	1488.3	1485.4	1485.4	1482.5
10°	1494.1	1491.2	1491.2	1488.3	1488.3	1482.5	1488.3	1485.4	1479.6	1482.5	1479.6
12.5°	1488.3	1485.4	1488.3	1482.5	1485.4	1476.7	1482.5	1479.6	1476.7	1479.6	1476.7
15°	1479.6	1476.7	1479.6	1473.8	1476.7	1470.9	1476.7	1473.8	1470.9	1473.8	1470.9
17.5°	1459.4	1456.5	1459.4	1456.5	1459.4	1450.7	1456.5	1456.5	1453.6	1456.5	1456.5
20°	1421.7	1418.8	1421.7	1418.8	1421.7	1415.9	1421.7	1421.7	1418.8	1424.6	1424.6
22.5°	1378.3	1378.3	1378.3	1378.3	1381.2	1375.4	1381.2	1381.2	1381.2	1387.0	1387.0
25°	1323.3	1326.2	1326.2	1326.2	1329.1	1326.2	1331.9	1331.9	1331.9	1337.7	1337.7
27.5°	1256.7	1256.7	1259.6	1262.5	1262.5	1259.6	1265.4	1268.2	1268.2	1274.0	1276.9
30°	1169.8	1172.7	1175.6	1178.5	1181.4	1178.5	1184.3	1184.3	1187.2	1193.0	1195.9
32.5°	1071.3	1077.1	1077.1	1082.9	1085.8	1082.9	1091.6	1088.7	1091.6	1097.4	1100.3
35°	961.3	967.1	967.1	972.9	972.9	972.9	978.7	981.6	981.6	984.5	984.5
37.5°	845.5	851.3	848.4	857.1	857.1	854.2	865.8	865.8	862.9	865.8	862.9
40°	729.7	735.5	735.5	741.3	741.3	741.3	749.9	744.2	744.2	744.2	738.4
42.5°	628.3	634.1	634.1	639.9	639.9	639.9	645.7	645.7	639.9	637.0	628.3
45°	550.2	553.0	555.9	558.8	558.8	558.8	564.6	561.7	558.8	553.0	538.6
47.5°	492.2	495.1	495.1	498.0	498.0	498.0	500.9	500.9	495.1	486.5	472.0
50°	448.8	448.8	451.7	451.7	454.6	451.7	454.6	451.7	445.9	437.2	419.9
52.5°	414.1	414.1	414.1	417.0	417.0	417.0	417.0	414.1	408.3	396.7	376.4
55°	379.3	379.3	382.2	382.2	385.1	382.2	382.2	379.3	370.6	361.9	338.8
57.5°	347.5	347.5	347.5	350.4	350.4	350.4	347.5	344.6	338.8	327.2	304.0
60°	312.7	312.7	312.7	312.7	315.6	312.7	312.7	306.9	301.1	289.6	269.3
62.5°	272.2	272.2	272.2	275.1	275.1	272.2	272.2	266.4	260.6	249.0	228.7
65°	231.6	231.6	231.6	234.5	234.5	231.6	231.6	225.9	220.1	211.4	191.1
67.5°	194.0	194.0	194.0	194.0	194.0	191.1	191.1	188.2	182.4	173.7	159.3
70°	153.5	153.5	153.5	156.4	153.5	153.5	153.5	150.6	144.8	139.0	124.5
72.5°	118.7	118.7	118.7	118.7	118.7	118.7	115.8	115.8	110.0	104.2	95.6
75°	84.0	84.0	84.0	84.0	84.0	84.0	84.0	81.1	78.2	75.3	66.6
77.5°	57.9	57.9	57.9	57.9	57.9	57.9	57.9	55.0	55.0	52.1	46.3
80°	37.6	37.6	37.6	37.6	37.6	34.7	34.7	34.7	34.7	31.9	29.0
82.5°	23.2	20.3	23.2	20.3	20.3	20.3	20.3	20.3	20.3	20.3	17.4
85°	11.6	11.6	11.6	11.6	8.7	8.7	8.7	8.7	8.7	8.7	8.7
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1459.4	1453.6	1459.4	1462.2	1456.5	1459.4	1462.2	1456.5
5°	1476.7	1468.0	1473.8	1476.7	1468.0	1470.9	1473.8	1468.0
7.5°	1485.4	1476.7	1482.5	1482.5	1473.8	1479.6	1482.5	1476.7
10°	1479.6	1473.8	1479.6	1479.6	1473.8	1476.7	1479.6	1473.8
12.5°	1476.7	1470.9	1476.7	1479.6	1470.9	1476.7	1479.6	1473.8
15°	1473.8	1468.0	1473.8	1476.7	1468.0	1473.8	1476.7	1470.9
17.5°	1456.5	1453.6	1462.2	1462.2	1456.5	1462.2	1465.1	1459.4
20°	1427.5	1424.6	1433.3	1436.2	1430.4	1436.2	1439.1	1433.3
22.5°	1389.9	1387.0	1395.6	1398.5	1392.8	1398.5	1401.4	1398.5
25°	1343.5	1340.6	1349.3	1352.2	1346.4	1352.2	1355.1	1349.3
27.5°	1279.8	1276.9	1285.6	1285.6	1282.7	1288.5	1291.4	1285.6
30°	1198.8	1193.0	1201.6	1198.8	1195.9	1201.6	1201.6	1198.8
32.5°	1097.4	1091.6	1097.4	1091.6	1091.6	1094.5	1094.5	1088.7
35°	978.7	975.8	972.9	964.2	964.2	964.2	964.2	958.4
37.5°	854.2	845.5	839.7	825.2	819.4	822.3	819.4	813.6
40°	726.8	712.3	700.7	683.3	674.7	674.7	671.8	666.0
42.5°	613.9	593.6	576.2	553.0	544.4	541.5	535.7	532.8
45°	521.2	495.1	469.1	445.9	431.4	428.5	422.7	417.0
47.5°	448.8	417.0	385.1	359.0	344.6	335.9	330.1	327.2
50°	390.9	356.2	318.5	286.7	272.2	260.6	254.8	251.9
52.5°	344.6	306.9	263.5	231.6	214.3	202.7	196.9	191.1
55°	306.9	263.5	220.1	185.3	167.9	156.4	150.6	144.8
57.5°	269.3	228.7	182.4	147.7	130.3	118.7	112.9	110.0
60°	234.5	194.0	150.6	118.7	101.3	89.8	84.0	81.1
62.5°	199.8	162.2	124.5	95.6	78.2	66.6	60.8	60.8
65°	165.0	133.2	98.4	72.4	57.9	49.2	43.4	43.4
67.5°	136.1	107.1	78.2	57.9	43.4	37.6	31.9	31.9
70°	107.1	86.9	60.8	46.3	34.7	26.1	23.2	23.2
72.5°	81.1	66.6	46.3	34.7	26.1	20.3	17.4	17.4
75°	57.9	46.3	34.7	23.2	17.4	14.5	11.6	11.6
77.5°	40.5	31.9	23.2	17.4	11.6	8.7	8.7	8.7
80°	26.1	20.3	14.5	11.6	8.7	5.8	5.8	5.8
82.5°	14.5	11.6	8.7	5.8	5.8	2.9	2.9	2.9
85°	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9
87.5°	2.9	2.9	2.9	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)