

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: P136689

Luminaire Tested: **LD6A30D010TE ERW6A30830 6LW121H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136689
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 ERW6A30830 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: 2817.0 lumens
Efficiency: N/A
Efficacy: 62.0 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

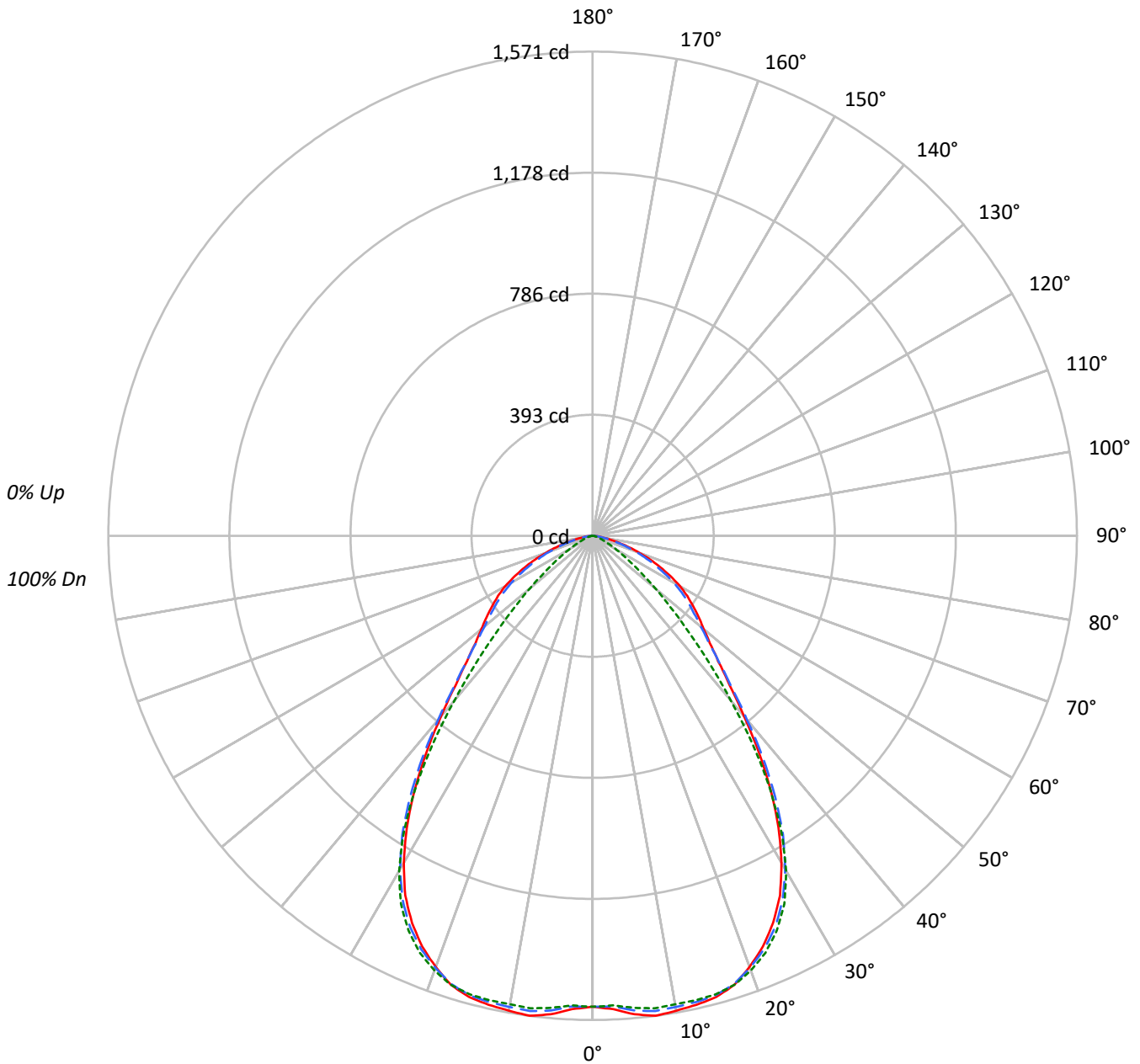
Input Watts (W): 45.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	99701	99701	99701
5°	102072	101273	100678
10°	103650	102849	102246
15°	104656	104244	104042
20°	103364	103579	104211
25°	99750	100844	101715
30°	92283	94114	94566
35°	80178	82113	79939
40°	65075	66370	59394
45°	53153	53439	40283
50°	47703	46475	26775
55°	45179	43109	17244
60°	42733	39562	11078
65°	37451	34178	7024
70°	30654	27754	4635
75°	22157	19863	3050
80°	14803	12549	2292
85°	9057	6812	2246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	5.2
10°-20°	434.5	15.4
20°-30°	639.6	22.7
30°-40°	629.4	22.3
40°-50°	425.6	15.1
50°-60°	286.0	10.2
60°-70°	174.6	6.2
70°-80°	68.8	2.4
80°-90°	10.6	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°	1221.9	43.4
0°-40°	1851.3	65.7
0°-60°	2562.9	91.0
0°-90°	2817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1559	1552	1546	1545	1537	149
15°	1550	1543	1543	1545	1540	436
25°	1386	1390	1401	1415	1413	633
35°	1007	1019	1031	1014	1004	624
45°	576	585	579	479	437	455
55°	397	402	379	212	152	356
65°	243	244	221	89	46	241
75°	88	88	79	30	12	98
85°	12	9	9	5	3	16
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°	1528.2	1528.2	1528.2	1528.2	1528.2	1528.2	1528.2	1528.2	1528.2	1528.2	1528.2
2.5°	1537.3	1531.3	1534.3	1531.3	1531.3	1525.2	1531.3	1531.3	1528.2	1528.2	1528.2
5°	1558.6	1555.5	1558.6	1552.5	1555.5	1549.5	1552.5	1549.5	1546.4	1546.4	1546.4
7.5°	1570.7	1564.6	1567.7	1561.6	1564.6	1558.6	1561.6	1558.6	1555.5	1555.5	1552.5
10°	1564.6	1561.6	1561.6	1558.6	1558.6	1552.5	1558.6	1555.5	1549.5	1552.5	1549.5
12.5°	1558.6	1555.5	1558.6	1552.5	1555.5	1546.4	1552.5	1549.5	1546.4	1549.5	1546.4
15°	1549.5	1546.4	1549.5	1543.4	1546.4	1540.4	1546.4	1543.4	1540.4	1543.4	1540.4
17.5°	1528.2	1525.2	1528.2	1525.2	1528.2	1519.2	1525.2	1525.2	1522.2	1525.2	1525.2
20°	1488.8	1485.8	1488.8	1485.8	1488.8	1482.8	1488.8	1488.8	1485.8	1491.9	1491.9
22.5°	1443.3	1443.3	1443.3	1443.3	1446.4	1440.3	1446.4	1446.4	1446.4	1452.4	1452.4
25°	1385.7	1388.8	1388.8	1388.8	1391.8	1388.8	1394.8	1394.8	1394.8	1400.9	1400.9
27.5°	1316.0	1316.0	1319.0	1322.1	1322.1	1319.0	1325.1	1328.1	1328.1	1334.2	1337.2
30°	1225.0	1228.1	1231.1	1234.1	1237.2	1234.1	1240.2	1240.2	1243.2	1249.3	1252.3
32.5°	1121.9	1128.0	1128.0	1134.1	1137.1	1134.1	1143.2	1140.1	1143.2	1149.2	1152.3
35°	1006.7	1012.8	1012.8	1018.8	1018.8	1018.8	1024.9	1027.9	1027.9	1031.0	1031.0
37.5°	885.4	891.5	888.4	897.5	897.5	894.5	906.6	906.6	903.6	906.6	903.6
40°	764.1	770.2	770.2	776.3	776.3	776.3	785.4	779.3	779.3	779.3	773.2
42.5°	658.0	664.1	664.1	670.1	670.1	670.1	676.2	676.2	670.1	667.1	658.0
45°	576.1	579.2	582.2	585.2	585.2	585.2	591.3	588.3	585.2	579.2	564.0
47.5°	515.5	518.5	518.5	521.5	521.5	521.5	524.6	524.6	518.5	509.4	494.3
50°	470.0	470.0	473.0	473.0	476.1	473.0	476.1	473.0	467.0	457.9	439.7
52.5°	433.6	433.6	433.6	436.6	436.6	436.6	436.6	433.6	427.5	415.4	394.2
55°	397.2	397.2	400.3	400.3	403.3	400.3	400.3	397.2	388.1	379.0	354.8
57.5°	363.9	363.9	363.9	366.9	366.9	366.9	363.9	360.8	354.8	342.6	318.4
60°	327.5	327.5	327.5	327.5	330.5	327.5	327.5	321.4	315.4	303.2	282.0
62.5°	285.0	285.0	285.0	288.1	288.1	285.0	285.0	279.0	272.9	260.8	239.5
65°	242.6	242.6	242.6	245.6	245.6	242.6	242.6	236.5	230.5	221.4	200.1
67.5°	203.2	203.2	203.2	203.2	203.2	200.1	200.1	197.1	191.0	181.9	166.8
70°	160.7	160.7	160.7	163.7	160.7	160.7	160.7	157.7	151.6	145.5	130.4
72.5°	124.3	124.3	124.3	124.3	124.3	124.3	121.3	121.3	115.2	109.2	100.1
75°	87.9	87.9	87.9	87.9	87.9	87.9	87.9	84.9	81.9	78.8	69.7
77.5°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	57.6	57.6	54.6	48.5
80°	39.4	39.4	39.4	39.4	39.4	36.4	36.4	36.4	36.4	33.4	30.3
82.5°	24.3	21.2	24.3	21.2	21.2	21.2	21.2	21.2	21.2	21.2	18.2
85°	12.1	12.1	12.1	12.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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°	1528.2	1528.2	1528.2	1528.2	1528.2	1528.2	1528.2	1528.2
2.5°	1528.2	1522.2	1528.2	1531.3	1525.2	1528.2	1531.3	1525.2
5°	1546.4	1537.3	1543.4	1546.4	1537.3	1540.4	1543.4	1537.3
7.5°	1555.5	1546.4	1552.5	1552.5	1543.4	1549.5	1552.5	1546.4
10°	1549.5	1543.4	1549.5	1549.5	1543.4	1546.4	1549.5	1543.4
12.5°	1546.4	1540.4	1546.4	1549.5	1540.4	1546.4	1549.5	1543.4
15°	1543.4	1537.3	1543.4	1546.4	1537.3	1543.4	1546.4	1540.4
17.5°	1525.2	1522.2	1531.3	1531.3	1525.2	1531.3	1534.3	1528.2
20°	1494.9	1491.9	1501.0	1504.0	1497.9	1504.0	1507.0	1501.0
22.5°	1455.5	1452.4	1461.5	1464.6	1458.5	1464.6	1467.6	1464.6
25°	1407.0	1403.9	1413.0	1416.1	1410.0	1416.1	1419.1	1413.0
27.5°	1340.3	1337.2	1346.3	1346.3	1343.3	1349.3	1352.4	1346.3
30°	1255.3	1249.3	1258.4	1255.3	1252.3	1258.4	1258.4	1255.3
32.5°	1149.2	1143.2	1149.2	1143.2	1143.2	1146.2	1146.2	1140.1
35°	1024.9	1021.9	1018.8	1009.7	1009.7	1009.7	1009.7	1003.7
37.5°	894.5	885.4	879.4	864.2	858.1	861.2	858.1	852.1
40°	761.1	745.9	733.8	715.6	706.5	706.5	703.5	697.4
42.5°	642.8	621.6	603.4	579.2	570.1	567.0	561.0	557.9
45°	545.8	518.5	491.2	467.0	451.8	448.8	442.7	436.6
47.5°	470.0	436.6	403.3	376.0	360.8	351.7	345.7	342.6
50°	409.4	373.0	333.5	300.2	285.0	272.9	266.8	263.8
52.5°	360.8	321.4	275.9	242.6	224.4	212.3	206.2	200.1
55°	321.4	275.9	230.5	194.1	175.9	163.7	157.7	151.6
57.5°	282.0	239.5	191.0	154.6	136.5	124.3	118.3	115.2
60°	245.6	203.2	157.7	124.3	106.1	94.0	87.9	84.9
62.5°	209.2	169.8	130.4	100.1	81.9	69.7	63.7	63.7
65°	172.8	139.5	103.1	75.8	60.6	51.5	45.5	45.5
67.5°	142.5	112.2	81.9	60.6	45.5	39.4	33.4	33.4
70°	112.2	91.0	63.7	48.5	36.4	27.3	24.3	24.3
72.5°	84.9	69.7	48.5	36.4	27.3	21.2	18.2	18.2
75°	60.6	48.5	36.4	24.3	18.2	15.2	12.1	12.1
77.5°	42.5	33.4	24.3	18.2	12.1	9.1	9.1	9.1
80°	27.3	21.2	15.2	12.1	9.1	6.1	6.1	6.1
82.5°	15.2	12.1	9.1	6.1	6.1	3.0	3.0	3.0
85°	6.1	6.1	6.1	3.0	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	3.0	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)