

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: P136691

Luminaire Tested: **LD6A30D010TE ERW6A30840 6LW121H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136691  
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 ERW6A30840 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 4000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

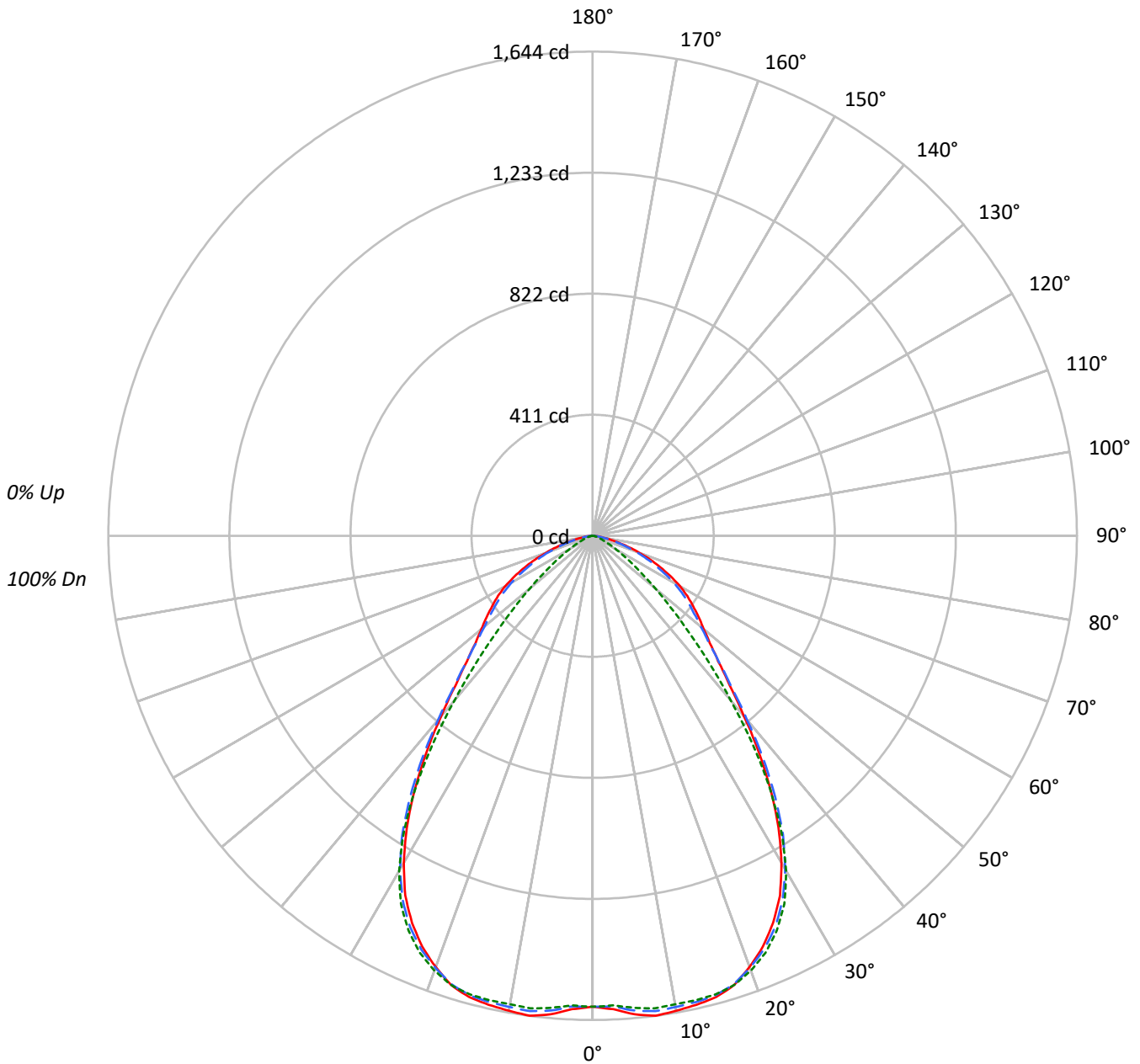
Lumens per Lamp: N/A  
Luminaire Lumens: 2948.0 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.15  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 45.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61				61
5	83	72	64	59	81	71	64	59	69	63	58	67	62	57	65	61	57	55				55
6	77	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50				50
7	72	61	53	48	71	60	53	48	58	52	47	57	51	47	56	51	47	45				45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41				41
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34				34

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	104339	104339	104339
5°	106820	105989	105360
10°	108473	107632	107002
15°	109519	109094	108878
20°	108175	108390	109057
25°	104393	105530	106444
30°	96577	98491	98965
35°	83905	85928	83650
40°	68107	69453	62154
45°	55626	55921	42156
50°	49926	48637	28023
55°	47283	45122	18051
60°	44716	41402	11600
65°	39195	35753	7348
70°	32084	29051	4845
75°	23190	20796	3201
80°	15517	13112	2367
85°	9507	7111	2395



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.7	5.2
10°-20°	454.7	15.4
20°-30°	669.3	22.7
30°-40°	658.7	22.3
40°-50°	445.4	15.1
50°-60°	299.4	10.2
60°-70°	182.7	6.2
70°-80°	72.0	2.4
80°-90°	11.1	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°	1278.7	43.4
0°-40°	1937.4	65.7
0°-60°	2682.1	91.0
0°-90°	2948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1631	1625	1618	1617	1609	156
15°	1622	1615	1615	1617	1612	456
25°	1450	1455	1466	1480	1479	663
35°	1054	1066	1079	1061	1050	653
45°	603	612	606	501	457	476
55°	416	420	397	222	159	373
65°	254	255	232	94	48	252
75°	92	92	82	32	13	103
85°	13	10	10	5	3	17
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°	1599.3	1599.3	1599.3	1599.3	1599.3	1599.3	1599.3	1599.3	1599.3	1599.3	1599.3
2.5°	1608.8	1602.5	1605.7	1602.5	1602.5	1596.1	1602.5	1602.5	1599.3	1599.3	1599.3
5°	1631.1	1627.9	1631.1	1624.7	1627.9	1621.5	1624.7	1621.5	1618.4	1618.4	1618.4
7.5°	1643.7	1637.4	1640.6	1634.2	1637.4	1631.1	1634.2	1631.1	1627.9	1627.9	1624.7
10°	1637.4	1634.2	1634.2	1631.1	1631.1	1624.7	1631.1	1627.9	1621.5	1624.7	1621.5
12.5°	1631.1	1627.9	1631.1	1624.7	1627.9	1618.4	1624.7	1621.5	1618.4	1621.5	1618.4
15°	1621.5	1618.4	1621.5	1615.2	1618.4	1612.0	1618.4	1615.2	1612.0	1615.2	1612.0
17.5°	1599.3	1596.1	1599.3	1596.1	1599.3	1589.8	1596.1	1596.1	1593.0	1596.1	1596.1
20°	1558.1	1554.9	1558.1	1554.9	1558.1	1551.7	1558.1	1558.1	1554.9	1561.2	1561.2
22.5°	1510.5	1510.5	1510.5	1510.5	1513.6	1507.3	1513.6	1513.6	1513.6	1520.0	1520.0
25°	1450.2	1453.3	1453.3	1453.3	1456.5	1453.3	1459.7	1459.7	1459.7	1466.0	1466.0
27.5°	1377.2	1377.2	1380.4	1383.5	1383.5	1380.4	1386.7	1389.9	1389.9	1396.2	1399.4
30°	1282.0	1285.2	1288.3	1291.5	1294.7	1291.5	1297.9	1297.9	1301.0	1307.4	1310.6
32.5°	1174.1	1180.4	1180.4	1186.8	1190.0	1186.8	1196.3	1193.1	1196.3	1202.7	1205.8
35°	1053.5	1059.9	1059.9	1066.2	1066.2	1066.2	1072.6	1075.7	1075.7	1078.9	1078.9
37.5°	926.6	932.9	929.8	939.3	939.3	936.1	948.8	948.8	945.6	948.8	945.6
40°	799.7	806.0	806.0	812.4	812.4	812.4	821.9	815.5	815.5	815.5	809.2
42.5°	688.6	694.9	694.9	701.3	701.3	701.3	707.6	707.6	701.3	698.1	688.6
45°	602.9	606.1	609.3	612.4	612.4	612.4	618.8	615.6	612.4	606.1	590.2
47.5°	539.5	542.6	542.6	545.8	545.8	545.8	549.0	549.0	542.6	533.1	517.2
50°	491.9	491.9	495.0	495.0	498.2	495.0	498.2	495.0	488.7	479.2	460.1
52.5°	453.8	453.8	453.8	456.9	456.9	456.9	456.9	453.8	447.4	434.7	412.5
55°	415.7	415.7	418.9	418.9	422.0	418.9	418.9	415.7	406.2	396.7	371.3
57.5°	380.8	380.8	380.8	384.0	384.0	384.0	380.8	377.6	371.3	358.6	333.2
60°	342.7	342.7	342.7	342.7	345.9	342.7	342.7	336.4	330.0	317.3	295.1
62.5°	298.3	298.3	298.3	301.5	301.5	298.3	298.3	291.9	285.6	272.9	250.7
65°	253.9	253.9	253.9	257.0	257.0	253.9	253.9	247.5	241.2	231.6	209.4
67.5°	212.6	212.6	212.6	212.6	212.6	209.4	209.4	206.3	199.9	190.4	174.5
70°	168.2	168.2	168.2	171.4	168.2	168.2	168.2	165.0	158.7	152.3	136.4
72.5°	130.1	130.1	130.1	130.1	130.1	130.1	126.9	126.9	120.6	114.2	104.7
75°	92.0	92.0	92.0	92.0	92.0	92.0	92.0	88.9	85.7	82.5	73.0
77.5°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	60.3	60.3	57.1	50.8
80°	41.3	41.3	41.3	41.3	41.3	38.1	38.1	38.1	38.1	34.9	31.7
82.5°	25.4	22.2	25.4	22.2	22.2	22.2	22.2	22.2	22.2	22.2	19.0
85°	12.7	12.7	12.7	12.7	9.5	9.5	9.5	9.5	9.5	9.5	9.5
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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°	1599.3	1599.3	1599.3	1599.3	1599.3	1599.3	1599.3	1599.3
2.5°	1599.3	1593.0	1599.3	1602.5	1596.1	1599.3	1602.5	1596.1
5°	1618.4	1608.8	1615.2	1618.4	1608.8	1612.0	1615.2	1608.8
7.5°	1627.9	1618.4	1624.7	1624.7	1615.2	1621.5	1624.7	1618.4
10°	1621.5	1615.2	1621.5	1621.5	1615.2	1618.4	1621.5	1615.2
12.5°	1618.4	1612.0	1618.4	1621.5	1612.0	1618.4	1621.5	1615.2
15°	1615.2	1608.8	1615.2	1618.4	1608.8	1615.2	1618.4	1612.0
17.5°	1596.1	1593.0	1602.5	1602.5	1596.1	1602.5	1605.7	1599.3
20°	1564.4	1561.2	1570.8	1573.9	1567.6	1573.9	1577.1	1570.8
22.5°	1523.2	1520.0	1529.5	1532.7	1526.3	1532.7	1535.9	1532.7
25°	1472.4	1469.2	1478.7	1481.9	1475.6	1481.9	1485.1	1478.7
27.5°	1402.6	1399.4	1408.9	1408.9	1405.8	1412.1	1415.3	1408.9
30°	1313.7	1307.4	1316.9	1313.7	1310.6	1316.9	1316.9	1313.7
32.5°	1202.7	1196.3	1202.7	1196.3	1196.3	1199.5	1199.5	1193.1
35°	1072.6	1069.4	1066.2	1056.7	1056.7	1056.7	1056.7	1050.3
37.5°	936.1	926.6	920.2	904.4	898.0	901.2	898.0	891.7
40°	796.5	780.6	767.9	748.9	739.4	739.4	736.2	729.8
42.5°	672.7	650.5	631.5	606.1	596.6	593.4	587.1	583.9
45°	571.2	542.6	514.1	488.7	472.8	469.6	463.3	456.9
47.5°	491.9	456.9	422.0	393.5	377.6	368.1	361.8	358.6
50°	428.4	390.3	349.1	314.2	298.3	285.6	279.2	276.1
52.5°	377.6	336.4	288.8	253.9	234.8	222.1	215.8	209.4
55°	336.4	288.8	241.2	203.1	184.0	171.4	165.0	158.7
57.5°	295.1	250.7	199.9	161.8	142.8	130.1	123.8	120.6
60°	257.0	212.6	165.0	130.1	111.1	98.4	92.0	88.9
62.5°	219.0	177.7	136.4	104.7	85.7	73.0	66.6	66.6
65°	180.9	146.0	107.9	79.3	63.5	53.9	47.6	47.6
67.5°	149.1	117.4	85.7	63.5	47.6	41.3	34.9	34.9
70°	117.4	95.2	66.6	50.8	38.1	28.6	25.4	25.4
72.5°	88.9	73.0	50.8	38.1	28.6	22.2	19.0	19.0
75°	63.5	50.8	38.1	25.4	19.0	15.9	12.7	12.7
77.5°	44.4	34.9	25.4	19.0	12.7	9.5	9.5	9.5
80°	28.6	22.2	15.9	12.7	9.5	6.3	6.3	6.3
82.5°	15.9	12.7	9.5	6.3	6.3	3.2	3.2	3.2
85°	6.3	6.3	6.3	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	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



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°    - - 45°-225°    - - - - 90°-270°









(END OF REPORT)