

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: P136690

Luminaire Tested: **LD6A30D010TE ERW6A30835 6LW121H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136690  
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 ERW6A30835 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**

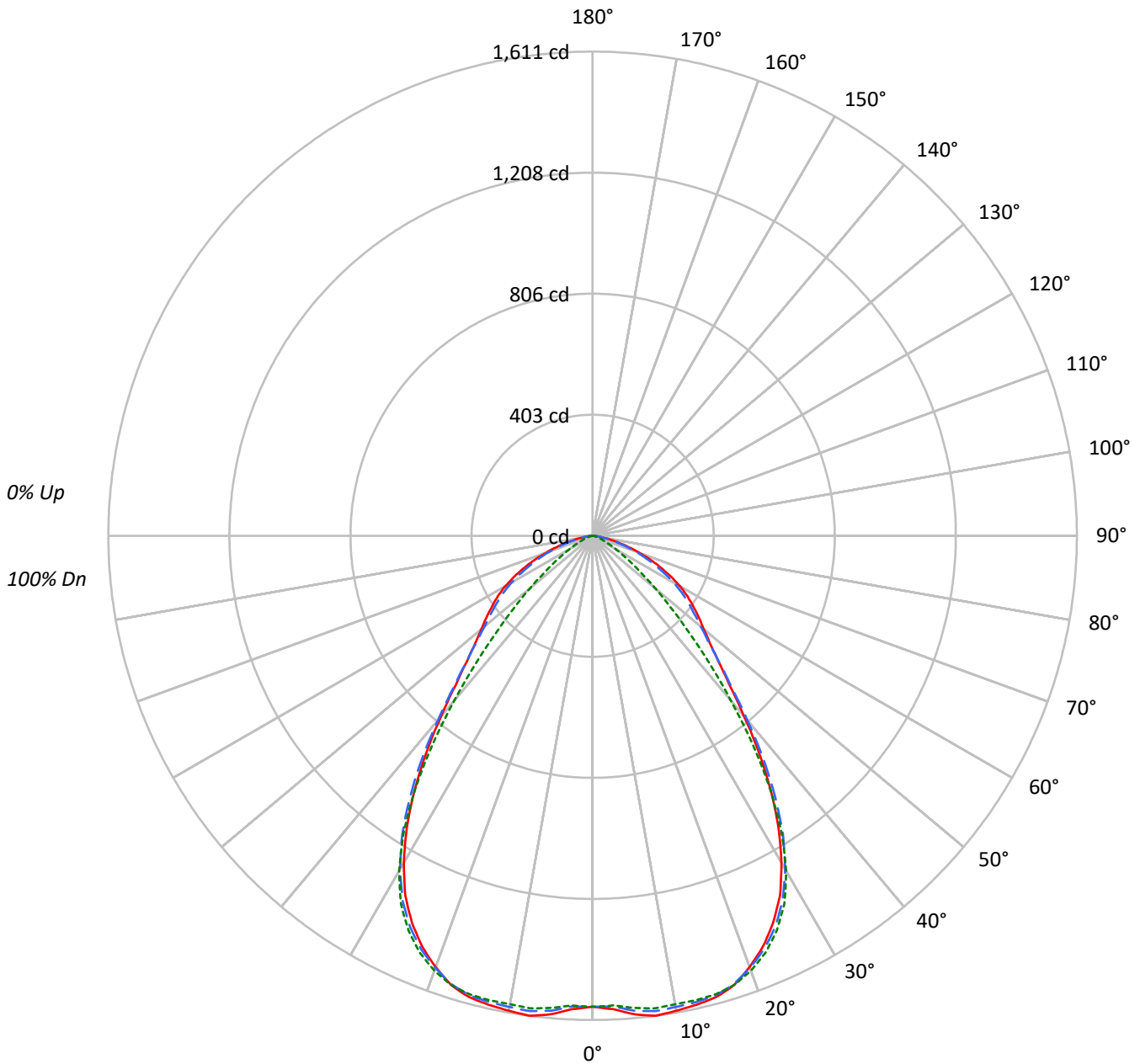
Lumens per Lamp: N/A  
Luminaire Lumens: 2889.0 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.15  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 45.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
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°	102252	102252	102252
5°	104679	103867	103251
10°	106300	105479	104862
15°	107331	106912	106696
20°	106009	106224	106870
25°	102305	103421	104314
30°	94641	96517	96984
35°	82225	84208	81978
40°	66744	68064	60910
45°	54519	54805	41316
50°	48921	47663	27455
55°	46339	44212	17687
60°	43829	40580	11365
65°	38408	35043	7194
70°	31436	28479	4750
75°	22737	20392	3126
80°	15179	12849	2329
85°	9282	6962	2321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.6	5.2
10°-20°	445.6	15.4
20°-30°	655.9	22.7
30°-40°	645.5	22.3
40°-50°	436.5	15.1
50°-60°	293.4	10.2
60°-70°	179.1	6.2
70°-80°	70.6	2.4
80°-90°	10.9	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°	1253.1	43.4
0°-40°	1898.6	65.7
0°-60°	2628.5	91.0
0°-90°	2889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2889.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1598	1592	1586	1584	1577	153
15°	1589	1583	1583	1584	1580	447
25°	1421	1426	1437	1451	1449	649
35°	1032	1045	1057	1040	1029	640
45°	591	600	594	491	448	467
55°	407	412	389	218	156	365
65°	249	250	227	92	47	247
75°	90	90	81	31	12	101
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°	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3
2.5°	1576.6	1570.4	1573.5	1570.4	1570.4	1564.2	1570.4	1570.4	1567.3	1567.3	1567.3
5°	1598.4	1595.3	1598.4	1592.2	1595.3	1589.1	1592.2	1589.1	1586.0	1586.0	1586.0
7.5°	1610.8	1604.6	1607.7	1601.5	1604.6	1598.4	1601.5	1598.4	1595.3	1595.3	1592.2
10°	1604.6	1601.5	1601.5	1598.4	1598.4	1592.2	1598.4	1595.3	1589.1	1592.2	1589.1
12.5°	1598.4	1595.3	1598.4	1592.2	1595.3	1586.0	1592.2	1589.1	1586.0	1589.1	1586.0
15°	1589.1	1586.0	1589.1	1582.9	1586.0	1579.7	1586.0	1582.9	1579.7	1582.9	1579.7
17.5°	1567.3	1564.2	1567.3	1564.2	1567.3	1558.0	1564.2	1564.2	1561.1	1564.2	1564.2
20°	1526.9	1523.8	1526.9	1523.8	1526.9	1520.7	1526.9	1526.9	1523.8	1530.0	1530.0
22.5°	1480.2	1480.2	1480.2	1480.2	1483.3	1477.1	1483.3	1483.3	1483.3	1489.6	1489.6
25°	1421.2	1424.3	1424.3	1424.3	1427.4	1424.3	1430.5	1430.5	1430.5	1436.7	1436.7
27.5°	1349.6	1349.6	1352.7	1355.8	1355.8	1352.7	1359.0	1362.1	1362.1	1368.3	1371.4
30°	1256.3	1259.4	1262.6	1265.7	1268.8	1265.7	1271.9	1271.9	1275.0	1281.2	1284.3
32.5°	1150.6	1156.8	1156.8	1163.0	1166.2	1163.0	1172.4	1169.3	1172.4	1178.6	1181.7
35°	1032.4	1038.7	1038.7	1044.9	1044.9	1044.9	1051.1	1054.2	1054.2	1057.3	1057.3
37.5°	908.0	914.3	911.2	920.5	920.5	917.4	929.8	929.8	926.7	929.8	926.7
40°	783.7	789.9	789.9	796.1	796.1	796.1	805.4	799.2	799.2	799.2	793.0
42.5°	674.8	681.0	681.0	687.3	687.3	687.3	693.5	693.5	687.3	684.1	674.8
45°	590.9	594.0	597.1	600.2	600.2	600.2	606.4	603.3	600.2	594.0	578.4
47.5°	528.7	531.8	531.8	534.9	534.9	534.9	538.0	538.0	531.8	522.4	506.9
50°	482.0	482.0	485.1	485.1	488.2	485.1	488.2	485.1	478.9	469.6	450.9
52.5°	444.7	444.7	444.7	447.8	447.8	447.8	447.8	444.7	438.5	426.0	404.3
55°	407.4	407.4	410.5	410.5	413.6	410.5	410.5	407.4	398.0	388.7	363.8
57.5°	373.2	373.2	373.2	376.3	376.3	376.3	373.2	370.1	363.8	351.4	326.5
60°	335.9	335.9	335.9	335.9	339.0	335.9	335.9	329.6	323.4	311.0	289.2
62.5°	292.3	292.3	292.3	295.4	295.4	292.3	292.3	286.1	279.9	267.4	245.7
65°	248.8	248.8	248.8	251.9	251.9	248.8	248.8	242.6	236.3	227.0	205.2
67.5°	208.4	208.4	208.4	208.4	208.4	205.2	205.2	202.1	195.9	186.6	171.0
70°	164.8	164.8	164.8	167.9	164.8	164.8	164.8	161.7	155.5	149.3	133.7
72.5°	127.5	127.5	127.5	127.5	127.5	127.5	124.4	124.4	118.2	112.0	102.6
75°	90.2	90.2	90.2	90.2	90.2	90.2	90.2	87.1	84.0	80.9	71.5
77.5°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	59.1	59.1	56.0	49.8
80°	40.4	40.4	40.4	40.4	40.4	37.3	37.3	37.3	37.3	34.2	31.1
82.5°	24.9	21.8	24.9	21.8	21.8	21.8	21.8	21.8	21.8	21.8	18.7
85°	12.4	12.4	12.4	12.4	9.3	9.3	9.3	9.3	9.3	9.3	9.3
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3	1567.3
2.5°	1567.3	1561.1	1567.3	1570.4	1564.2	1567.3	1570.4	1564.2
5°	1586.0	1576.6	1582.9	1586.0	1576.6	1579.7	1582.9	1576.6
7.5°	1595.3	1586.0	1592.2	1592.2	1582.9	1589.1	1592.2	1586.0
10°	1589.1	1582.9	1589.1	1589.1	1582.9	1586.0	1589.1	1582.9
12.5°	1586.0	1579.7	1586.0	1589.1	1579.7	1586.0	1589.1	1582.9
15°	1582.9	1576.6	1582.9	1586.0	1576.6	1582.9	1586.0	1579.7
17.5°	1564.2	1561.1	1570.4	1570.4	1564.2	1570.4	1573.5	1567.3
20°	1533.1	1530.0	1539.3	1542.4	1536.2	1542.4	1545.5	1539.3
22.5°	1492.7	1489.6	1498.9	1502.0	1495.8	1502.0	1505.1	1502.0
25°	1442.9	1439.8	1449.1	1452.3	1446.0	1452.3	1455.4	1449.1
27.5°	1374.5	1371.4	1380.7	1380.7	1377.6	1383.8	1386.9	1380.7
30°	1287.4	1281.2	1290.5	1287.4	1284.3	1290.5	1290.5	1287.4
32.5°	1178.6	1172.4	1178.6	1172.4	1172.4	1175.5	1175.5	1169.3
35°	1051.1	1048.0	1044.9	1035.5	1035.5	1035.5	1035.5	1029.3
37.5°	917.4	908.0	901.8	886.3	880.1	883.2	880.1	873.8
40°	780.5	765.0	752.6	733.9	724.6	724.6	721.5	715.2
42.5°	659.3	637.5	618.8	594.0	584.6	581.5	575.3	572.2
45°	559.8	531.8	503.8	478.9	463.4	460.2	454.0	447.8
47.5°	482.0	447.8	413.6	385.6	370.1	360.7	354.5	351.4
50°	419.8	382.5	342.1	307.9	292.3	279.9	273.7	270.5
52.5°	370.1	329.6	283.0	248.8	230.1	217.7	211.5	205.2
55°	329.6	283.0	236.3	199.0	180.4	167.9	161.7	155.5
57.5°	289.2	245.7	195.9	158.6	139.9	127.5	121.3	118.2
60°	251.9	208.4	161.7	127.5	108.8	96.4	90.2	87.1
62.5°	214.6	174.1	133.7	102.6	84.0	71.5	65.3	65.3
65°	177.3	143.0	105.7	77.7	62.2	52.9	46.6	46.6
67.5°	146.2	115.1	84.0	62.2	46.6	40.4	34.2	34.2
70°	115.1	93.3	65.3	49.8	37.3	28.0	24.9	24.9
72.5°	87.1	71.5	49.8	37.3	28.0	21.8	18.7	18.7
75°	62.2	49.8	37.3	24.9	18.7	15.5	12.4	12.4
77.5°	43.5	34.2	24.9	18.7	12.4	9.3	9.3	9.3
80°	28.0	21.8	15.5	12.4	9.3	6.2	6.2	6.2
82.5°	15.5	12.4	9.3	6.2	6.2	3.1	3.1	3.1
85°	6.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1
87.5°	3.1	3.1	3.1	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)