

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P393627

Luminaire Tested: **24EN-LD2-58-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-37)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-58-UNV-L93050-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 5800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4771.4 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

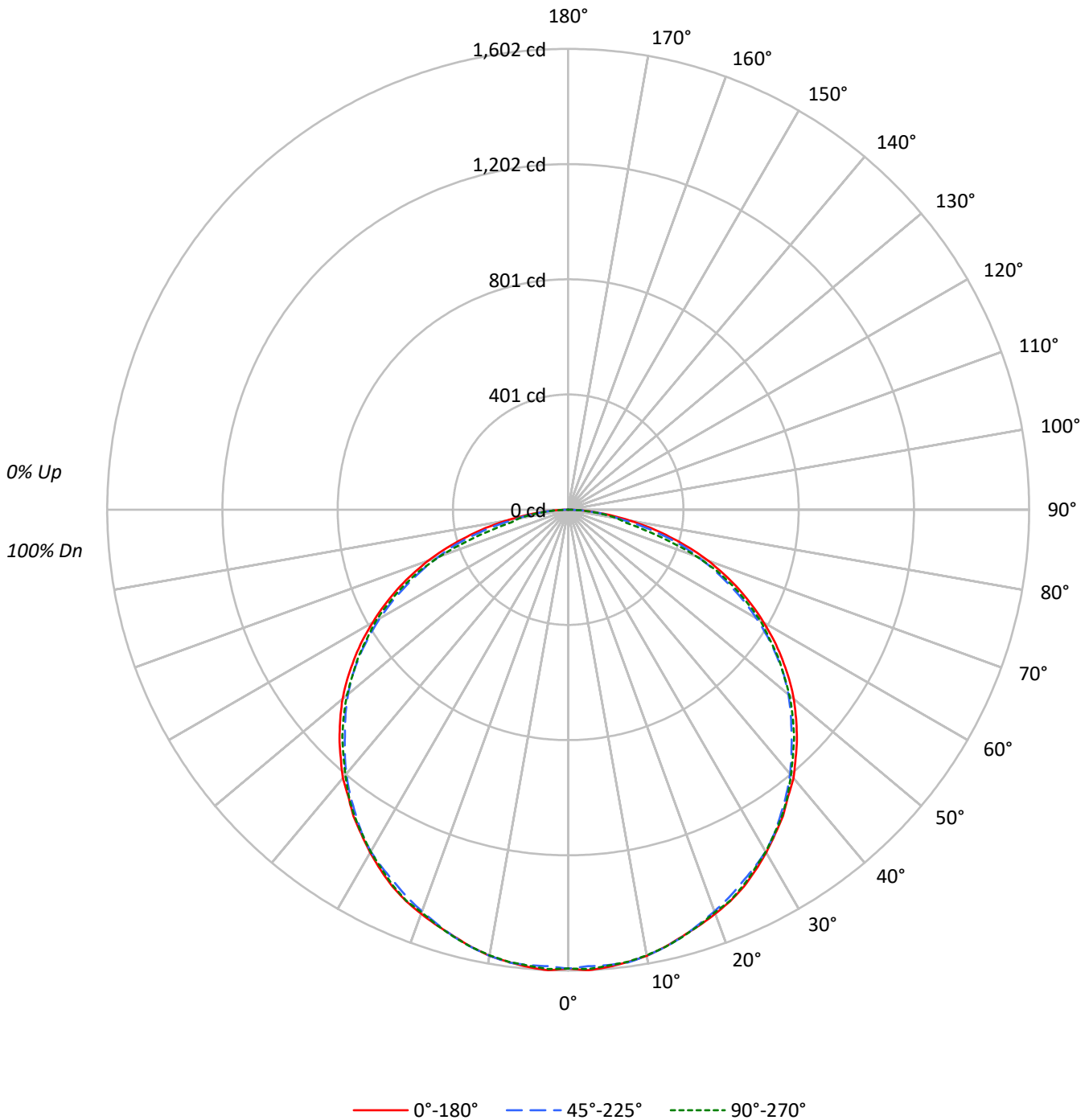
Input Watts (W): 41.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393627

CATALOG NUMBER: 24EN-LD2-58-UNV-L93050-W2A-1-U (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393627

CATALOG NUMBER: 24EN-LD2-58-UNV-L93050-W2A-1-U (3000K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2146	2146	2146
5°	2155	2147	2149
10°	2151	2151	2149
15°	2138	2141	2142
20°	2140	2127	2133
25°	2146	2121	2140
30°	2138	2132	2132
35°	2137	2118	2130
40°	2139	2107	2115
45°	2139	2087	2112
50°	2143	2090	2102
55°	2132	2074	2086
60°	2112	2034	2074
65°	2085	1968	2022
70°	2030	1891	1862
75°	1901	1747	1452
80°	1681	1382	1350
85°	1294	1257	1142



TEST NUMBER: P393627

CATALOG NUMBER: 24EN-LD2-58-UNV-L93050-W2A-1-U (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.2
10°-20°	433.7	9.1
20°-30°	662.3	13.9
30°-40°	808.4	16.9
40°-50°	854.8	17.9
50°-60°	795.0	16.7
60°-70°	623.5	13.1
70°-80°	349.7	7.3
80°-90°	92.9	1.9
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°	1247.1	26.1
0°-40°	2055.5	43.1
0°-60°	3705.3	77.7
0°-90°	4771.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4771.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1596	1589	1589	1584	1591	152
15°	1535	1537	1537	1533	1538	434
25°	1445	1436	1429	1437	1441	666
35°	1301	1297	1289	1282	1297	813
45°	1124	1113	1097	1104	1110	867
55°	909	898	884	881	889	812
65°	655	638	618	624	635	646
75°	366	352	336	298	279	387
85°	84	80	81	76	74	101
90°	0	0	0	0	0	



TEST NUMBER: P393627

CATALOG NUMBER: 24EN-LD2-58-UNV-L93050-W2A-1-U (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1595.0	1595.0	1595.0	1595.0	1595.0
2.5°	1602.4	1591.7	1588.4	1591.7	1598.3
5°	1595.8	1589.3	1589.3	1584.3	1590.9
7.5°	1586.0	1583.5	1587.6	1574.5	1585.1
10°	1574.5	1570.4	1574.5	1560.5	1572.8
12.5°	1556.4	1555.6	1557.2	1549.8	1557.2
15°	1535.0	1536.7	1536.7	1532.6	1537.5
17.5°	1515.3	1516.1	1511.2	1516.1	1514.5
20°	1494.8	1493.1	1485.7	1494.8	1489.8
22.5°	1472.6	1467.6	1459.4	1468.5	1470.9
25°	1445.4	1436.4	1429.0	1437.2	1441.3
27.5°	1411.8	1402.7	1401.9	1401.9	1406.0
30°	1376.4	1369.8	1372.3	1365.7	1372.3
32.5°	1337.8	1335.3	1333.7	1324.7	1334.5
35°	1300.8	1296.7	1289.3	1281.9	1296.7
37.5°	1255.6	1253.2	1245.8	1241.7	1253.2
40°	1217.8	1208.0	1199.7	1197.3	1203.9
42.5°	1170.2	1158.7	1148.8	1152.9	1156.2
45°	1124.1	1112.6	1097.0	1104.4	1110.2
47.5°	1074.0	1061.7	1049.4	1054.3	1057.6
50°	1023.9	1008.3	998.4	997.6	1004.2
52.5°	968.0	954.9	945.0	941.7	944.2
55°	908.8	898.2	884.2	880.9	889.1
57.5°	848.9	837.4	820.9	818.5	826.7
60°	784.8	773.3	756.0	756.0	770.8
62.5°	720.7	707.5	687.8	691.9	702.6
65°	654.9	637.7	618.0	624.5	635.2
67.5°	585.9	569.5	549.7	555.5	562.1
70°	516.1	498.0	480.7	475.8	473.3
72.5°	442.9	424.0	415.0	391.1	376.4
75°	365.7	352.5	336.1	298.3	279.4
77.5°	294.2	282.7	258.0	212.8	202.1
80°	216.9	216.1	178.3	173.4	174.2
82.5°	147.1	143.8	133.9	124.9	125.7
85°	83.8	80.5	81.4	75.6	74.0
87.5°	30.4	32.9	32.0	32.9	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)