

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: P393659

Luminaire Tested: **24EN-LD2-67-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-38)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-67-UNV-L93050-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 6700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5470.5 lumens
Efficiency: N/A
Efficacy: 112.8 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

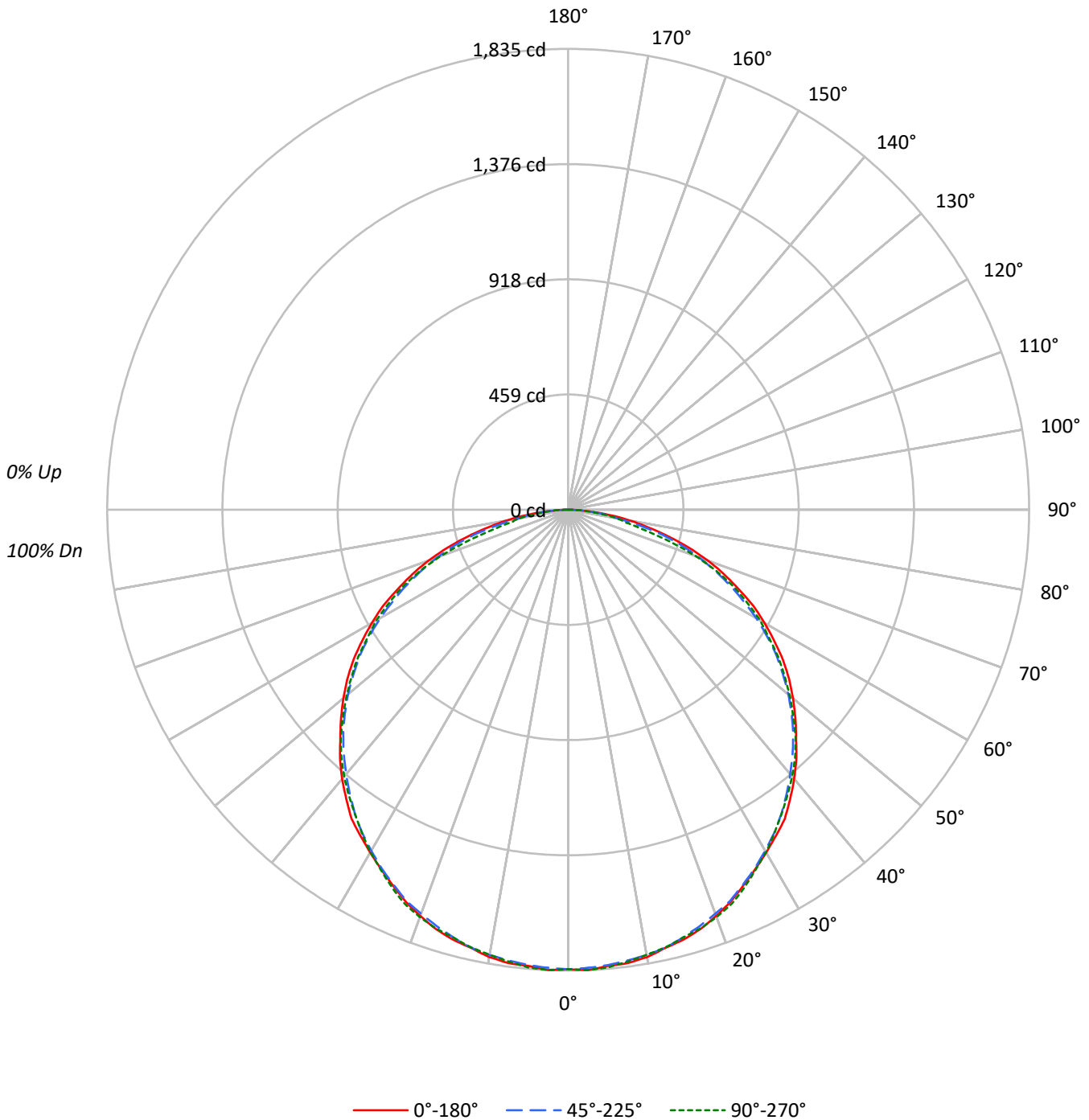
Input Watts (W): 48.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2462	2462	2462
5°	2463	2458	2471
10°	2471	2460	2459
15°	2469	2456	2458
20°	2465	2451	2472
25°	2451	2445	2464
30°	2449	2436	2446
35°	2469	2429	2429
40°	2458	2415	2436
45°	2441	2410	2435
50°	2444	2394	2408
55°	2448	2375	2392
60°	2428	2324	2375
65°	2381	2258	2315
70°	2321	2179	2124
75°	2157	2025	1636
80°	1949	1547	1541
85°	1561	1420	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	3.2
10°-20°	498.4	9.1
20°-30°	761.2	13.9
30°-40°	927.5	17.0
40°-50°	981.9	17.9
50°-60°	909.7	16.6
60°-70°	714.3	13.1
70°-80°	398.1	7.3
80°-90°	106.2	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°	1432.9	26.2
0°-40°	2360.3	43.1
0°-60°	4251.9	77.7
0°-90°	5470.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5470.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1823	1827	1820	1818	1829	174
15°	1772	1766	1764	1760	1764	500
25°	1651	1652	1647	1649	1660	762
35°	1503	1485	1479	1473	1479	937
45°	1283	1280	1266	1268	1280	992
55°	1044	1026	1012	1007	1020	931
65°	748	732	709	718	727	742
75°	415	401	390	334	315	440
85°	101	93	92	85	84	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1830.0	1830.0	1830.0	1830.0	1830.0
2.5°	1835.0	1826.7	1825.9	1827.6	1834.1
5°	1823.4	1826.7	1820.2	1817.7	1829.2
7.5°	1821.0	1819.3	1810.3	1804.5	1814.4
10°	1808.7	1806.2	1800.4	1791.4	1799.6
12.5°	1787.3	1788.9	1786.5	1776.6	1785.6
15°	1772.5	1765.9	1763.5	1760.2	1764.3
17.5°	1751.1	1738.0	1738.8	1743.7	1748.7
20°	1721.6	1710.0	1711.7	1720.7	1726.5
22.5°	1689.5	1684.6	1685.4	1688.7	1699.4
25°	1650.9	1652.5	1646.8	1649.2	1659.9
27.5°	1613.1	1618.8	1609.0	1606.5	1615.5
30°	1576.1	1578.6	1567.9	1562.1	1574.5
32.5°	1539.1	1533.4	1526.0	1517.8	1527.6
35°	1503.0	1484.9	1479.1	1472.6	1479.1
37.5°	1451.2	1436.4	1427.4	1428.2	1433.9
40°	1399.4	1383.0	1374.8	1381.4	1387.1
42.5°	1344.4	1329.6	1322.2	1327.1	1337.0
45°	1282.7	1280.3	1266.3	1267.9	1279.5
47.5°	1226.0	1222.8	1206.3	1206.3	1214.5
50°	1167.7	1158.7	1143.9	1138.9	1150.4
52.5°	1108.5	1092.9	1077.3	1075.7	1085.5
55°	1043.6	1026.4	1012.4	1006.6	1019.8
57.5°	972.9	956.5	938.4	938.4	946.6
60°	902.3	882.6	863.7	864.5	882.6
62.5°	830.8	811.1	784.8	789.7	804.5
65°	747.8	732.2	709.2	718.2	727.2
67.5°	671.4	654.1	630.3	638.5	638.5
70°	590.0	567.8	553.9	544.8	539.9
72.5°	504.6	484.0	474.1	441.3	427.3
75°	415.0	401.0	389.5	334.4	314.7
77.5°	329.5	322.1	290.9	243.2	231.7
80°	251.5	245.7	199.7	198.0	198.9
82.5°	171.7	165.2	152.8	143.0	138.1
85°	101.1	92.9	92.0	84.6	83.8
87.5°	33.7	37.0	38.6	37.8	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)