

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: P393559

Luminaire Tested: **24EN-LD2-49-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-35)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24EN-LD2-49-UNV-L92765-W2A-1-U (5000K)  
Description: 2X4 ENCOUNTER, 4900 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4165.7 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

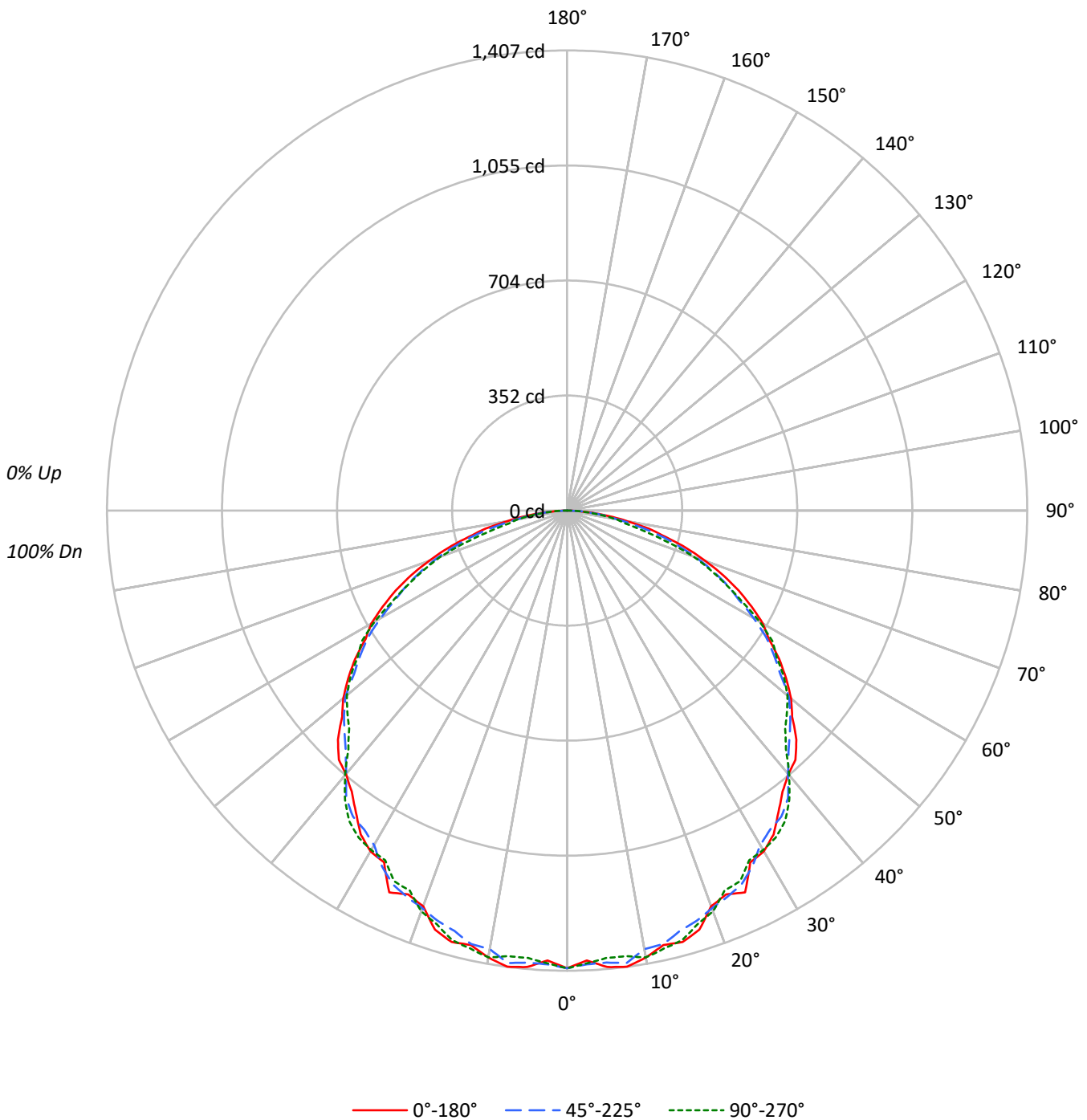
Input Watts (W): 34.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	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°	1883	1883	1883
5°	1892	1874	1855
10°	1896	1860	1896
15°	1902	1854	1894
20°	1843	1853	1867
25°	1912	1872	1857
30°	1869	1835	1862
35°	1850	1876	1906
40°	1848	1845	1855
45°	1886	1832	1793
50°	1870	1852	1840
55°	1857	1811	1835
60°	1860	1774	1830
65°	1841	1720	1707
70°	1764	1655	1618
75°	1617	1525	1271
80°	1430	1208	1169
85°	1184	1067	990



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.6	3.2
10°-20°	380.3	9.1
20°-30°	576.3	13.8
30°-40°	709.5	17.0
40°-50°	746.3	17.9
50°-60°	694.4	16.7
60°-70°	542.7	13.0
70°-80°	304.1	7.3
80°-90°	80.5	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°	1088.2	26.1
0°-40°	1797.7	43.2
0°-60°	3238.4	77.7
0°-90°	4165.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4165.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1401	1386	1387	1366	1373	133
15°	1366	1350	1331	1345	1360	382
25°	1288	1243	1261	1234	1251	579
35°	1126	1140	1142	1124	1161	706
45°	991	981	963	963	942	759
55°	792	786	772	770	782	707
65°	578	561	540	544	536	569
75°	311	304	293	259	244	334
85°	77	69	69	62	64	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1399.2	1399.2	1399.2	1399.2	1399.2
2.5°	1376.5	1403.4	1388.3	1406.0	1385.7
5°	1400.9	1385.7	1387.4	1366.3	1373.1
7.5°	1406.8	1350.3	1395.0	1372.2	1373.9
10°	1387.4	1362.1	1361.3	1360.4	1387.4
12.5°	1360.4	1370.6	1357.1	1344.4	1371.4
15°	1365.5	1349.5	1330.9	1345.3	1359.6
17.5°	1343.6	1336.0	1315.8	1352.9	1325.9
20°	1287.1	1316.6	1293.9	1314.1	1304.0
22.5°	1270.2	1294.7	1278.7	1291.3	1257.6
25°	1287.9	1243.3	1261.0	1234.0	1250.9
27.5°	1212.9	1204.5	1226.4	1217.1	1205.3
30°	1202.8	1189.3	1180.9	1181.7	1198.6
32.5°	1174.2	1159.8	1155.6	1163.2	1186.0
35°	1126.1	1139.6	1142.1	1124.4	1160.7
37.5°	1082.3	1092.4	1109.3	1108.4	1116.0
40°	1051.9	1069.6	1050.3	1058.7	1056.2
42.5°	1033.4	1017.4	1001.4	1006.4	990.4
45°	991.2	981.1	962.6	963.4	942.4
47.5°	933.1	920.4	925.5	911.2	912.0
50°	893.5	871.6	885.0	858.1	879.1
52.5°	843.7	834.5	821.0	812.6	835.3
55°	791.5	785.6	772.1	770.4	782.2
57.5°	730.8	725.7	721.5	720.7	744.3
60°	691.2	671.8	659.1	655.8	680.2
62.5°	635.5	627.1	593.4	601.0	603.5
65°	578.2	561.4	540.3	543.7	536.1
67.5°	516.7	486.4	481.3	482.1	473.7
70°	448.4	430.7	420.6	414.7	411.3
72.5°	383.5	369.2	357.4	342.2	327.0
75°	311.0	304.3	293.3	258.8	244.4
77.5°	255.4	247.8	224.2	186.3	183.8
80°	184.6	188.8	155.9	150.0	150.9
82.5°	130.6	127.3	116.3	108.7	104.5
85°	76.7	69.1	69.1	62.4	64.1
87.5°	25.3	28.7	28.7	27.8	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)