

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: P392933

Luminaire Tested: **12EN-LD2-39-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12EN-LD2-39-UNV-L82765-W2A-1-U (4000K)  
Description: 1X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3689.7 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

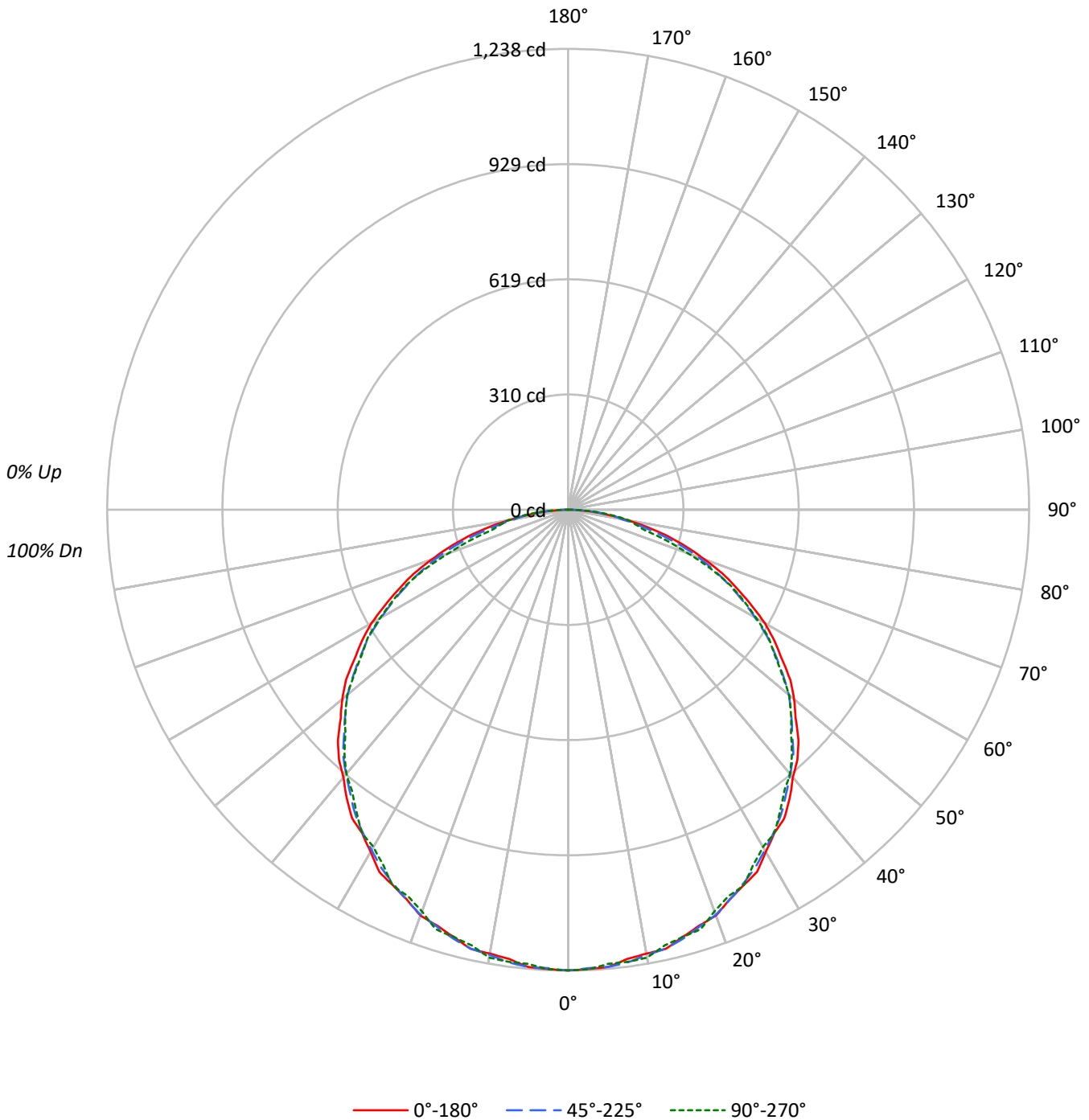
Input Watts (W): 35.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	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	39	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	41	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°	6661	6661	6661
5°	6662	6662	6616
10°	6616	6637	6678
15°	6620	6647	6620
20°	6645	6634	6576
25°	6612	6590	6618
30°	6595	6560	6502
35°	6647	6555	6512
40°	6596	6517	6511
45°	6655	6477	6441
50°	6633	6476	6484
55°	6574	6372	6337
60°	6566	6244	6284
65°	6365	6055	6127
70°	6129	5851	5380
75°	5789	5244	4410
80°	5009	4516	5123
85°	3983	4675	4959



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.0	3.2
10°-20°	336.3	9.1
20°-30°	511.8	13.9
30°-40°	623.8	16.9
40°-50°	661.1	17.9
50°-60°	612.9	16.6
60°-70°	476.7	12.9
70°-80°	267.8	7.3
80°-90°	82.2	2.2
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°	965.2	26.2
0°-40°	1589.0	43.1
0°-60°	2863.0	77.6
0°-90°	3689.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3689.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1233	1228	1233	1230	1225	117
15°	1188	1189	1193	1193	1188	336
25°	1114	1114	1110	1106	1114	514
35°	1012	1005	998	991	991	630
45°	874	865	851	848	846	672
55°	701	697	679	675	675	629
65°	500	495	476	474	481	495
75°	278	269	252	226	212	292
85°	64	66	76	78	80	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1237.7	1237.7	1237.7	1237.7	1237.7
2.5°	1234.9	1237.7	1233.1	1234.9	1235.9
5°	1233.1	1228.4	1233.1	1230.3	1224.7
7.5°	1217.2	1221.9	1226.5	1227.5	1224.7
10°	1210.7	1220.0	1214.4	1217.2	1221.9
12.5°	1208.8	1205.0	1207.9	1203.2	1198.5
15°	1188.2	1189.2	1192.9	1192.9	1188.2
17.5°	1171.4	1178.9	1174.2	1173.3	1181.7
20°	1160.2	1158.3	1158.3	1154.6	1148.1
22.5°	1133.1	1134.1	1134.1	1132.2	1123.8
25°	1113.5	1113.5	1109.8	1106.0	1114.4
27.5°	1097.6	1089.2	1085.5	1080.8	1076.1
30°	1061.2	1059.3	1055.6	1052.8	1046.2
32.5°	1030.4	1031.3	1027.6	1022.0	1030.4
35°	1011.7	1005.1	997.7	991.1	991.1
37.5°	977.1	970.6	961.2	955.6	952.8
40°	938.8	936.0	927.6	922.0	926.7
42.5°	910.8	905.2	894.9	886.5	889.3
45°	874.4	865.0	851.0	848.2	846.3
47.5°	828.6	825.8	811.8	808.0	811.8
50°	792.2	787.5	773.5	766.0	774.4
52.5°	752.0	741.7	725.8	724.0	723.0
55°	700.6	696.9	679.1	675.4	675.4
57.5°	656.7	651.1	633.4	626.8	637.1
60°	610.0	599.7	580.1	578.2	583.8
62.5°	553.9	547.4	527.8	527.8	531.5
65°	499.8	495.1	475.5	474.5	481.1
67.5°	448.4	439.0	424.1	417.6	413.8
70°	389.5	383.0	371.8	350.3	341.9
72.5°	333.5	327.0	314.8	281.2	278.4
75°	278.4	269.0	252.2	226.1	212.1
77.5°	218.6	215.8	192.4	180.3	185.9
80°	161.6	162.5	145.7	157.9	165.3
82.5°	110.2	106.5	118.6	123.3	126.1
85°	64.5	66.3	75.7	77.5	80.3
87.5°	26.2	30.8	35.5	36.4	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)