

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: P392950

Luminaire Tested: **12EN-LD2-39-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392950  
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-L92765-W2A-1-U (4500K)  
Description: 1X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3244.7 lumens  
Efficiency: N/A  
Efficacy: 91.9 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

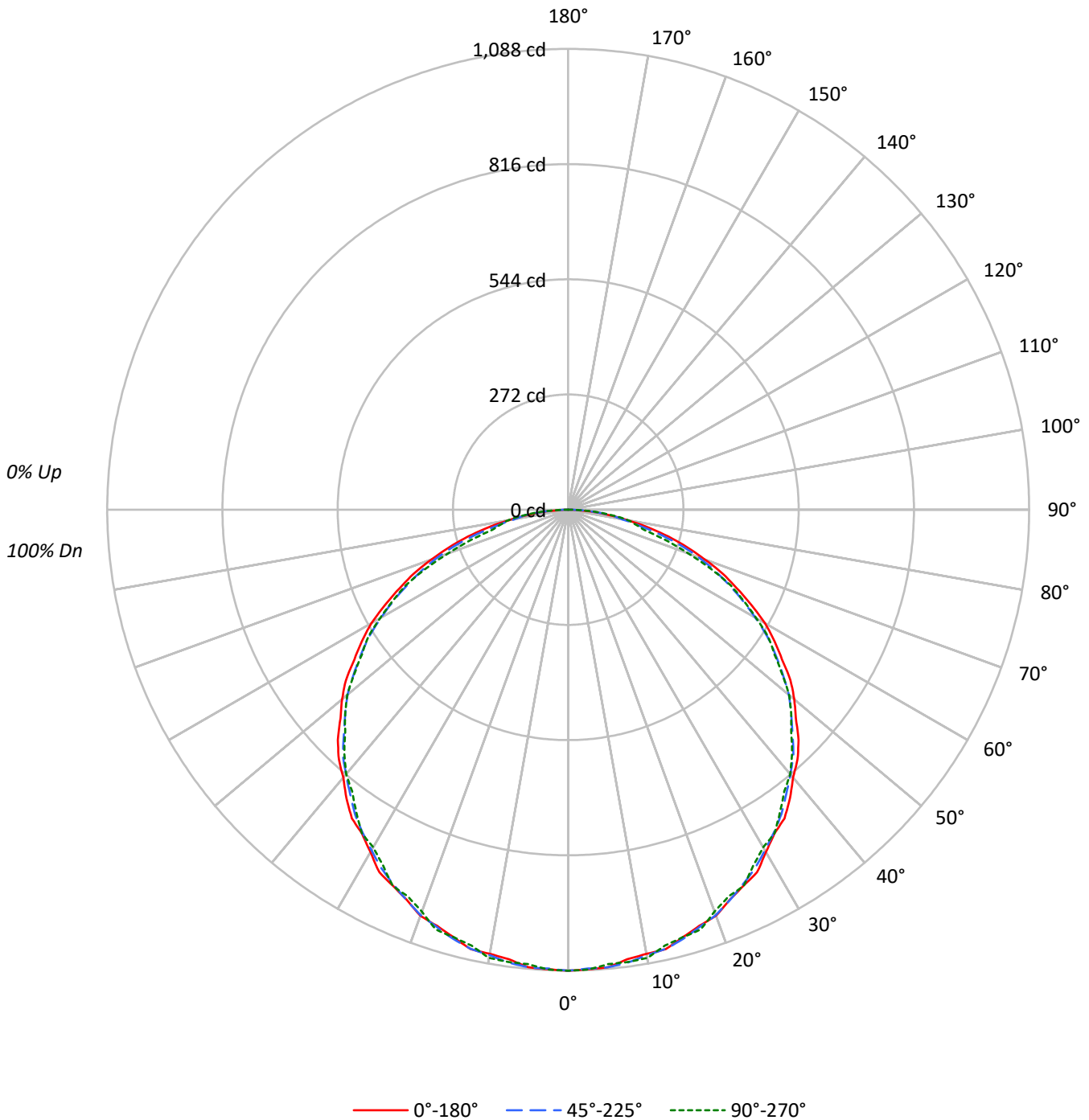
Input Watts (W): 35.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5858	5858	5858
5°	5858	5858	5819
10°	5819	5836	5872
15°	5822	5845	5822
20°	5844	5834	5782
25°	5815	5795	5820
30°	5799	5769	5718
35°	5845	5765	5727
40°	5800	5731	5725
45°	5852	5696	5665
50°	5833	5695	5702
55°	5781	5604	5573
60°	5774	5491	5526
65°	5597	5324	5388
70°	5391	5146	4732
75°	5090	4612	3878
80°	4404	3973	4506
85°	3501	4106	4360



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	3.2
10°-20°	295.8	9.1
20°-30°	450.1	13.9
30°-40°	548.6	16.9
40°-50°	581.3	17.9
50°-60°	539.0	16.6
60°-70°	419.2	12.9
70°-80°	235.5	7.3
80°-90°	72.3	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°	848.8	26.2
0°-40°	1397.4	43.1
0°-60°	2517.7	77.6
0°-90°	3244.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3244.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1084	1080	1084	1082	1077	103
15°	1045	1046	1049	1049	1045	295
25°	979	979	976	973	980	452
35°	890	884	877	872	872	554
45°	769	761	748	746	744	591
55°	616	613	597	594	594	553
65°	440	435	418	417	423	436
75°	245	237	222	199	186	256
85°	57	58	66	68	71	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1088.5	1088.5	1088.5	1088.5	1088.5
2.5°	1086.0	1088.5	1084.4	1086.0	1086.8
5°	1084.4	1080.3	1084.4	1081.9	1077.0
7.5°	1070.4	1074.5	1078.6	1079.4	1077.0
10°	1064.7	1072.9	1067.9	1070.4	1074.5
12.5°	1063.0	1059.7	1062.2	1058.1	1054.0
15°	1044.9	1045.8	1049.0	1049.0	1044.9
17.5°	1030.1	1036.7	1032.6	1031.8	1039.2
20°	1020.3	1018.6	1018.6	1015.4	1009.6
22.5°	996.5	997.3	997.3	995.6	988.3
25°	979.2	979.2	975.9	972.6	980.0
27.5°	965.3	957.9	954.6	950.5	946.4
30°	933.2	931.6	928.3	925.8	920.1
32.5°	906.1	906.9	903.6	898.7	906.1
35°	889.7	883.9	877.4	871.6	871.6
37.5°	859.3	853.5	845.3	840.4	837.9
40°	825.6	823.1	815.7	810.8	814.9
42.5°	801.0	796.0	787.0	779.6	782.1
45°	768.9	760.7	748.4	745.9	744.3
47.5°	728.7	726.2	713.9	710.6	713.9
50°	696.6	692.5	680.2	673.6	681.0
52.5°	661.3	652.3	638.3	636.7	635.8
55°	616.1	612.8	597.2	593.9	593.9
57.5°	577.5	572.6	557.0	551.2	560.3
60°	536.4	527.4	510.1	508.5	513.4
62.5°	487.1	481.4	464.1	464.1	467.4
65°	439.5	435.4	418.1	417.3	423.1
67.5°	394.3	386.1	373.0	367.2	363.9
70°	342.6	336.8	327.0	308.1	300.7
72.5°	293.3	287.5	276.8	247.3	244.8
75°	244.8	236.6	221.8	198.8	186.5
77.5°	192.2	189.8	169.2	158.5	163.5
80°	142.1	142.9	128.2	138.8	145.4
82.5°	96.9	93.6	104.3	108.4	110.9
85°	56.7	58.3	66.5	68.2	70.6
87.5°	23.0	27.1	31.2	32.0	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)