

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: P392949

Luminaire Tested: **12EN-LD2-39-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392949
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 (4000K)
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: 3266.6 lumens
Efficiency: N/A
Efficacy: 92.5 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

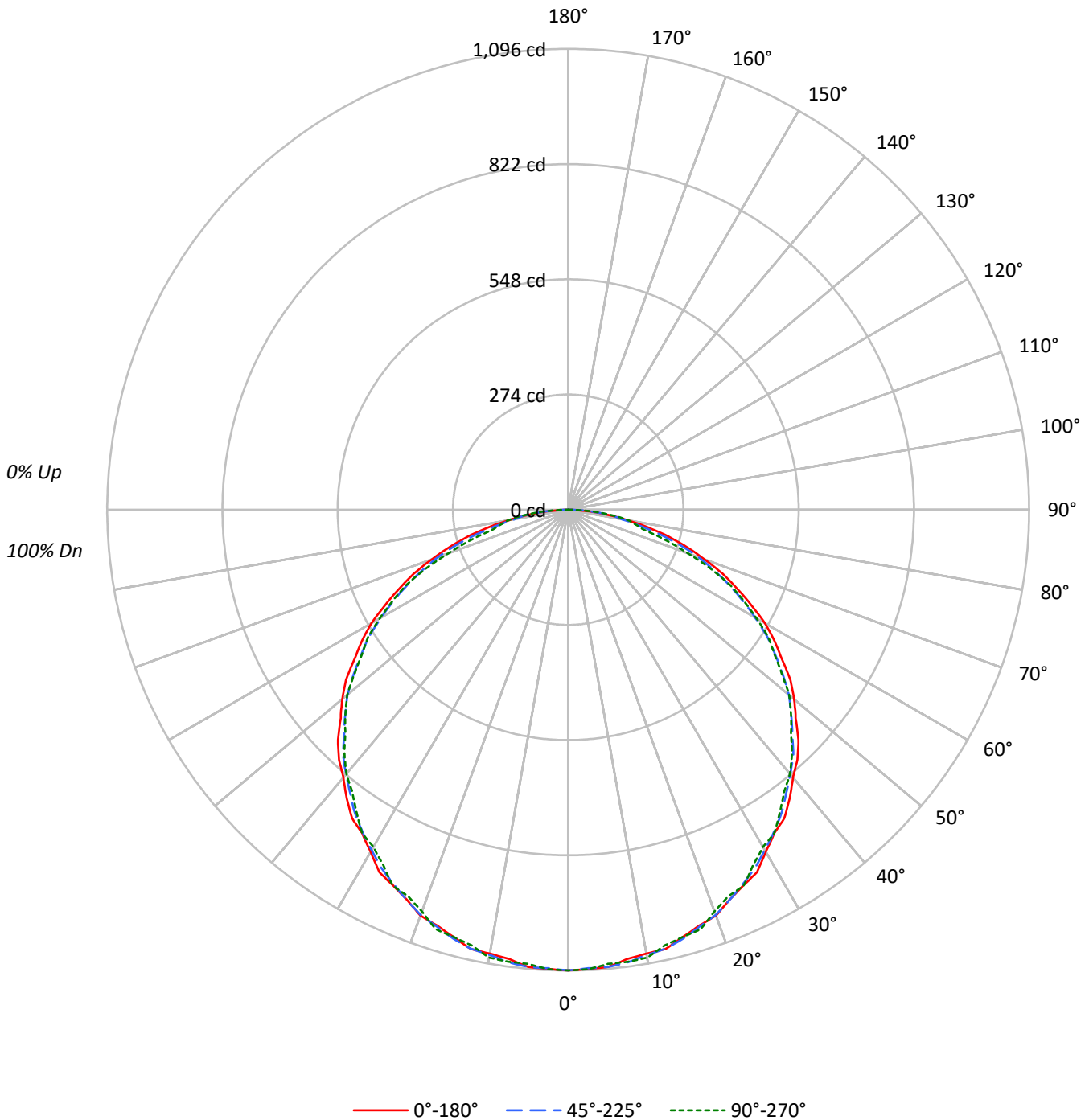
Input Watts (W): 35.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5898	5898	5898
5°	5898	5898	5857
10°	5857	5875	5912
15°	5862	5884	5862
20°	5883	5873	5821
25°	5854	5834	5859
30°	5839	5808	5757
35°	5885	5803	5765
40°	5840	5769	5764
45°	5892	5734	5703
50°	5872	5734	5740
55°	5820	5642	5610
60°	5814	5528	5564
65°	5635	5361	5424
70°	5427	5180	4763
75°	5126	4643	3903
80°	4435	3998	4537
85°	3526	4137	4390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.2
10°-20°	297.8	9.1
20°-30°	453.1	13.9
30°-40°	552.3	16.9
40°-50°	585.3	17.9
50°-60°	542.6	16.6
60°-70°	422.0	12.9
70°-80°	237.1	7.3
80°-90°	72.8	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°	854.5	26.2
0°-40°	1406.8	43.1
0°-60°	2534.7	77.6
0°-90°	3266.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1092	1088	1092	1089	1084	103
15°	1052	1053	1056	1056	1052	297
25°	986	986	982	979	987	455
35°	896	890	883	878	878	558
45°	774	766	753	751	749	595
55°	620	617	601	598	598	557
65°	442	438	421	420	426	439
75°	246	238	223	200	188	258
85°	57	59	67	69	71	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.8	1095.8	1095.8	1095.8	1095.8
2.5°	1093.3	1095.8	1091.7	1093.3	1094.2
5°	1091.7	1087.6	1091.7	1089.2	1084.2
7.5°	1077.6	1081.8	1085.9	1086.7	1084.2
10°	1071.8	1080.1	1075.1	1077.6	1081.8
12.5°	1070.2	1066.9	1069.4	1065.2	1061.1
15°	1052.0	1052.8	1056.1	1056.1	1052.0
17.5°	1037.1	1043.7	1039.6	1038.8	1046.2
20°	1027.2	1025.5	1025.5	1022.2	1016.4
22.5°	1003.2	1004.0	1004.0	1002.4	994.9
25°	985.8	985.8	982.5	979.2	986.7
27.5°	971.8	964.3	961.0	956.9	952.7
30°	939.5	937.9	934.6	932.1	926.3
32.5°	912.2	913.0	909.7	904.8	912.2
35°	895.7	889.9	883.3	877.5	877.5
37.5°	865.1	859.3	851.0	846.1	843.6
40°	831.2	828.7	821.2	816.3	820.4
42.5°	806.4	801.4	792.3	784.9	787.3
45°	774.1	765.8	753.4	750.9	749.3
47.5°	733.6	731.1	718.7	715.4	718.7
50°	701.3	697.2	684.8	678.2	685.6
52.5°	665.8	656.7	642.6	641.0	640.1
55°	620.3	617.0	601.3	597.9	597.9
57.5°	581.4	576.4	560.7	554.9	564.0
60°	540.1	531.0	513.6	511.9	516.9
62.5°	490.4	484.6	467.3	467.3	470.6
65°	442.5	438.3	421.0	420.1	425.9
67.5°	397.0	388.7	375.5	369.7	366.4
70°	344.9	339.1	329.2	310.1	302.7
72.5°	295.3	289.5	278.7	248.9	246.5
75°	246.5	238.2	223.3	200.1	187.7
77.5°	193.5	191.0	170.4	159.6	164.6
80°	143.1	143.9	129.0	139.8	146.4
82.5°	97.6	94.3	105.0	109.2	111.7
85°	57.1	58.7	67.0	68.6	71.1
87.5°	23.2	27.3	31.4	32.3	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)