

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: P393351

Luminaire Tested: **22EN-LD2-39-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-39-UNV-L82765-W2A-1-U (5000K)
Description: 2X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3775.1 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

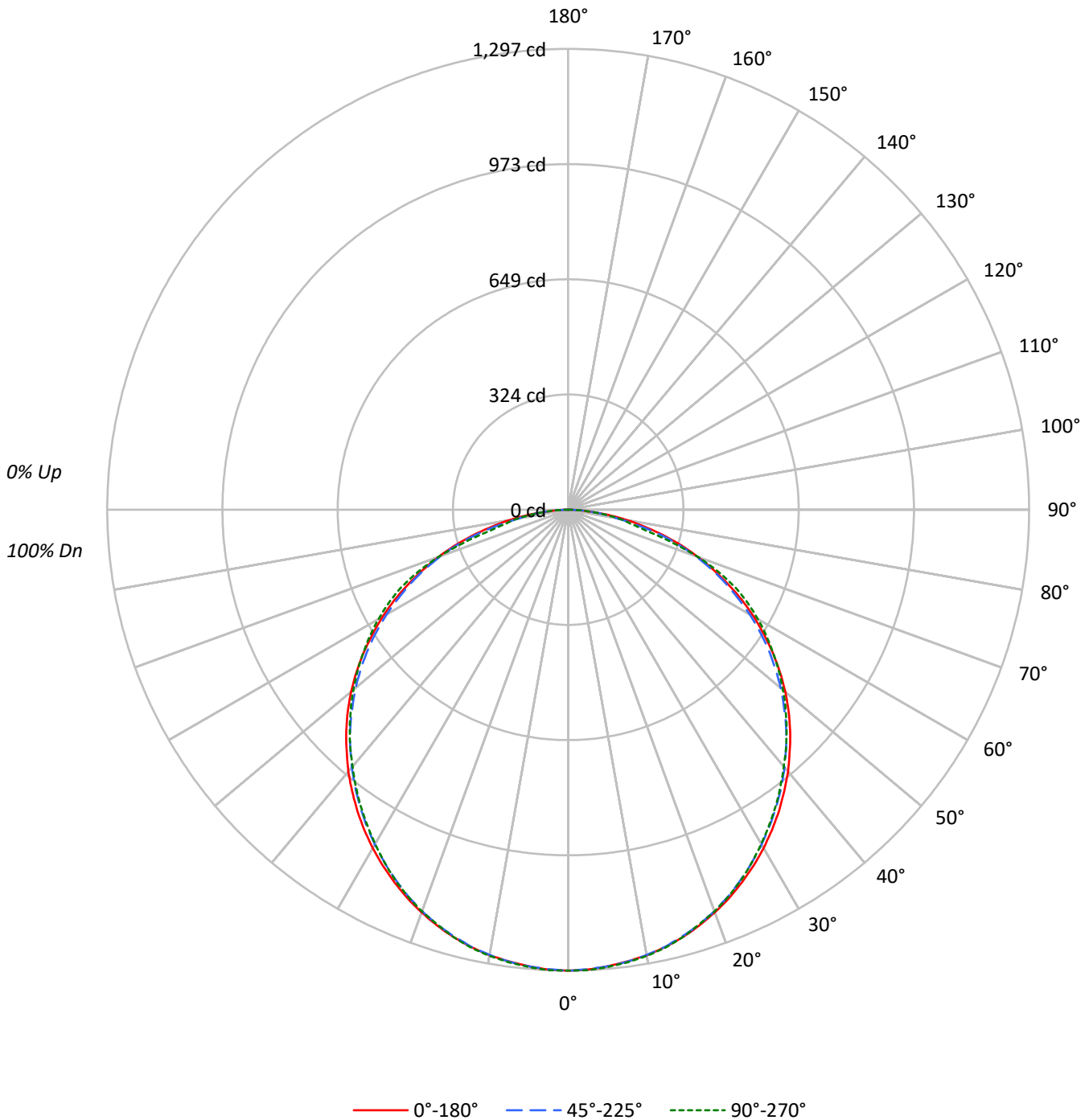
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3491	3491	3491
5°	3484	3484	3489
10°	3479	3477	3484
15°	3470	3462	3470
20°	3454	3443	3446
25°	3436	3413	3416
30°	3416	3381	3375
35°	3397	3353	3344
40°	3380	3326	3316
45°	3362	3300	3307
50°	3337	3268	3304
55°	3298	3230	3302
60°	3246	3173	3318
65°	3161	3106	3308
70°	3045	2992	3053
75°	2865	2746	2336
80°	2574	2173	2306
85°	1837	1868	1868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.2
10°-20°	350.9	9.3
20°-30°	530.4	14.0
30°-40°	640.0	17.0
40°-50°	671.6	17.8
50°-60°	621.5	16.5
60°-70°	490.6	13.0
70°-80°	274.7	7.3
80°-90°	72.7	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°	1003.9	26.6
0°-40°	1643.9	43.5
0°-60°	2937.1	77.8
0°-90°	3775.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3775.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1290	1288	1290	1290	1292	123
15°	1246	1244	1243	1243	1246	351
25°	1157	1153	1149	1147	1150	533
35°	1034	1029	1021	1015	1018	647
45°	884	878	867	862	869	681
55°	703	697	688	693	704	628
65°	496	493	488	503	520	491
75°	276	273	264	236	225	292
85°	60	60	60	60	60	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.3	1297.3	1297.3	1297.3	1297.3
2.5°	1295.4	1293.5	1294.4	1295.4	1297.3
5°	1289.6	1287.7	1289.6	1289.6	1291.6
7.5°	1282.0	1281.0	1282.9	1282.9	1284.8
10°	1273.3	1271.4	1272.4	1272.4	1275.2
12.5°	1260.8	1259.9	1259.9	1259.9	1262.8
15°	1245.5	1244.5	1242.6	1242.6	1245.5
17.5°	1227.2	1225.3	1224.3	1222.4	1224.3
20°	1206.1	1204.2	1202.3	1200.3	1203.2
22.5°	1183.1	1181.1	1177.3	1174.4	1178.3
25°	1157.1	1153.3	1149.4	1146.6	1150.4
27.5°	1129.3	1124.5	1119.7	1116.8	1119.7
30°	1099.5	1094.7	1088.0	1083.2	1086.1
32.5°	1067.8	1063.0	1055.3	1050.5	1052.5
35°	1034.2	1029.4	1020.8	1015.0	1017.9
37.5°	998.7	993.9	984.3	978.5	981.4
40°	962.2	956.4	946.8	941.1	943.9
42.5°	922.8	918.0	907.5	900.7	907.5
45°	883.5	877.7	867.1	862.3	869.0
47.5°	841.2	834.5	823.9	822.0	829.7
50°	797.0	791.3	780.7	779.7	789.3
52.5°	750.9	744.2	734.6	736.5	747.1
55°	702.9	697.2	688.5	693.3	703.9
57.5°	653.0	648.2	639.5	649.1	661.6
60°	603.1	597.3	589.6	602.1	616.5
62.5°	551.2	544.5	537.8	554.1	570.4
65°	496.5	492.6	487.8	503.2	519.5
67.5°	441.7	438.8	435.0	449.4	459.0
70°	387.0	383.1	380.3	385.1	388.0
72.5°	334.2	327.5	325.5	313.0	307.3
75°	275.6	272.7	264.1	236.2	224.7
77.5°	219.9	216.1	196.9	176.7	177.7
80°	166.1	160.4	140.2	146.9	148.8
82.5°	113.3	108.5	103.7	103.7	101.8
85°	59.5	59.5	60.5	60.5	60.5
87.5°	24.0	25.9	25.9	25.9	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)