

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: P393353

Luminaire Tested: **22EN-LD2-39-UNV-L82765-W2A-1-U (6500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393353
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 (6500K)
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: 3793.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

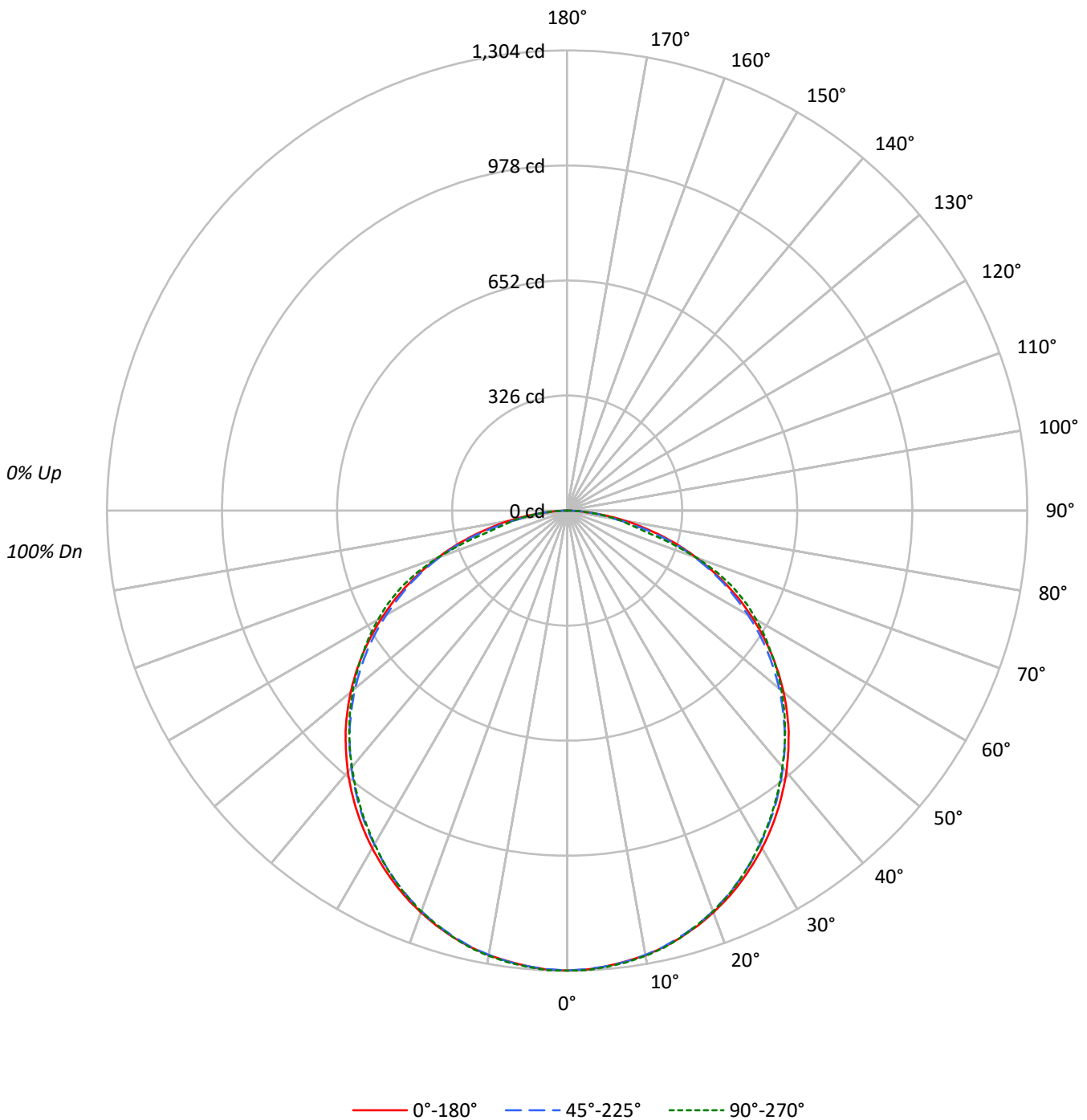
Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3508	3508	3508
5°	3500	3500	3505
10°	3496	3493	3501
15°	3486	3478	3486
20°	3470	3459	3462
25°	3452	3429	3432
30°	3433	3397	3391
35°	3414	3369	3360
40°	3396	3342	3332
45°	3378	3315	3323
50°	3352	3284	3320
55°	3313	3246	3318
60°	3261	3188	3334
65°	3176	3121	3324
70°	3059	3006	3067
75°	2879	2758	2348
80°	2586	2183	2317
85°	1846	1877	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	3.2
10°-20°	352.6	9.3
20°-30°	532.9	14.0
30°-40°	643.1	17.0
40°-50°	674.8	17.8
50°-60°	624.5	16.5
60°-70°	492.9	13.0
70°-80°	276.0	7.3
80°-90°	73.1	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°	1008.6	26.6
0°-40°	1651.7	43.5
0°-60°	2951.0	77.8
0°-90°	3793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1296	1294	1296	1296	1298	123
15°	1251	1250	1248	1248	1251	353
25°	1163	1159	1155	1152	1156	536
35°	1039	1034	1026	1020	1023	650
45°	888	882	871	866	873	684
55°	706	700	692	697	707	631
65°	499	495	490	506	522	493
75°	277	274	265	237	226	293
85°	60	60	61	61	61	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.5	1303.5	1303.5	1303.5	1303.5
2.5°	1301.5	1299.6	1300.6	1301.5	1303.5
5°	1295.8	1293.8	1295.8	1295.8	1297.7
7.5°	1288.0	1287.1	1289.0	1289.0	1290.9
10°	1279.4	1277.4	1278.4	1278.4	1281.3
12.5°	1266.8	1265.8	1265.8	1265.8	1268.7
15°	1251.4	1250.4	1248.5	1248.5	1251.4
17.5°	1233.0	1231.1	1230.1	1228.2	1230.1
20°	1211.8	1209.9	1208.0	1206.0	1208.9
22.5°	1188.7	1186.7	1182.9	1180.0	1183.8
25°	1162.6	1158.8	1154.9	1152.0	1155.9
27.5°	1134.6	1129.8	1125.0	1122.1	1125.0
30°	1104.7	1099.9	1093.1	1088.3	1091.2
32.5°	1072.9	1068.1	1060.3	1055.5	1057.4
35°	1039.1	1034.3	1025.6	1019.8	1022.7
37.5°	1003.4	998.6	988.9	983.2	986.0
40°	966.8	961.0	951.3	945.5	948.4
42.5°	927.2	922.4	911.8	905.0	911.8
45°	887.6	881.8	871.2	866.4	873.2
47.5°	845.2	838.4	827.8	825.9	833.6
50°	800.8	795.0	784.4	783.4	793.1
52.5°	754.5	747.7	738.1	740.0	750.6
55°	706.2	700.5	691.8	696.6	707.2
57.5°	656.1	651.3	642.6	652.2	664.8
60°	605.9	600.1	592.4	604.9	619.4
62.5°	553.8	547.1	540.3	556.7	573.1
65°	498.8	495.0	490.1	505.6	522.0
67.5°	443.8	440.9	437.1	451.5	461.2
70°	388.8	385.0	382.1	386.9	389.8
72.5°	335.8	329.0	327.1	314.5	308.7
75°	276.9	274.0	265.3	237.3	225.8
77.5°	220.9	217.1	197.8	177.5	178.5
80°	166.9	161.1	140.9	147.6	149.5
82.5°	113.8	109.0	104.2	104.2	102.3
85°	59.8	59.8	60.8	60.8	60.8
87.5°	24.1	26.1	26.1	26.1	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)