

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: P393383

Luminaire Tested: **22EN-LD2-43-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43-UNV-L82765-W2A-1-U (5000K)
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4126.3 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

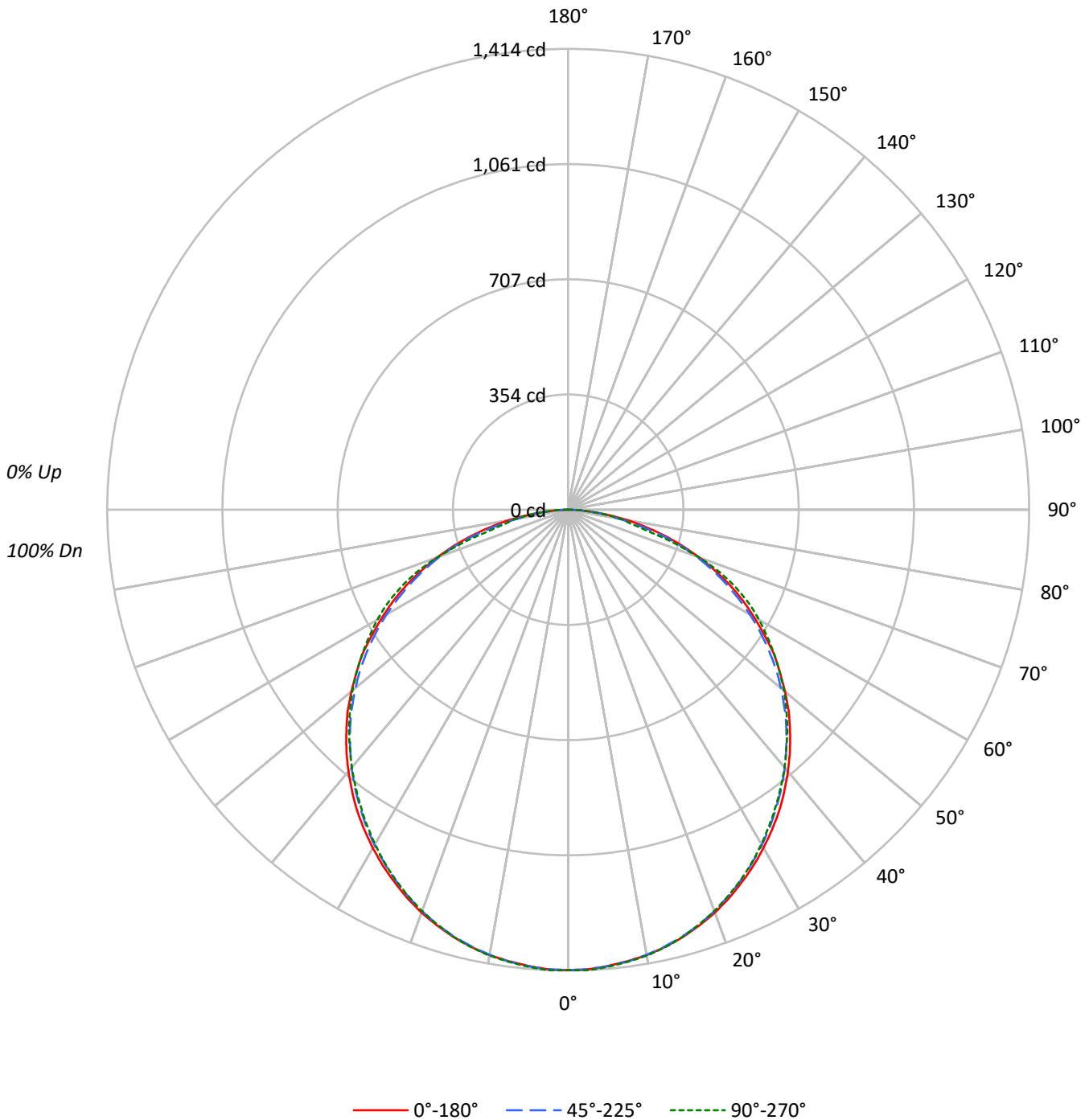
Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	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	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	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	39	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°	3801	3801	3801
5°	3795	3797	3803
10°	3792	3789	3797
15°	3783	3775	3780
20°	3767	3754	3754
25°	3744	3724	3721
30°	3724	3691	3682
35°	3707	3659	3647
40°	3684	3630	3626
45°	3662	3600	3618
50°	3634	3566	3618
55°	3609	3523	3618
60°	3540	3468	3638
65°	3479	3387	3626
70°	3355	3279	3362
75°	3165	2995	2606
80°	2842	2380	2560
85°	2106	2164	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.2
10°-20°	382.5	9.3
20°-30°	578.6	14.0
30°-40°	698.6	16.9
40°-50°	733.4	17.8
50°-60°	679.1	16.5
60°-70°	537.4	13.0
70°-80°	302.2	7.3
80°-90°	80.9	2.0
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°	1094.7	26.5
0°-40°	1793.3	43.5
0°-60°	3205.8	77.7
0°-90°	4126.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4126.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1413	1413	1413	1413	1413	
5°	1405	1404	1406	1406	1408	134
15°	1358	1356	1355	1355	1357	383
25°	1261	1259	1254	1252	1253	581
35°	1128	1124	1114	1108	1110	706
45°	962	957	946	943	951	743
55°	769	762	751	758	771	685
65°	546	540	532	552	569	539
75°	304	300	288	263	251	321
85°	68	66	70	66	67	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.6	1412.6	1412.6	1412.6	1412.6
2.5°	1411.6	1410.6	1411.6	1411.6	1414.5
5°	1404.9	1403.9	1405.8	1405.8	1407.8
7.5°	1397.2	1396.2	1398.2	1398.2	1399.1
10°	1387.6	1385.7	1386.6	1387.6	1389.5
12.5°	1374.2	1372.2	1372.2	1373.2	1375.1
15°	1357.8	1355.9	1354.9	1354.9	1356.9
17.5°	1337.7	1334.8	1334.8	1332.9	1334.8
20°	1315.6	1312.7	1310.8	1308.9	1310.8
22.5°	1289.6	1286.8	1283.9	1282.0	1282.9
25°	1260.8	1258.9	1254.1	1252.2	1253.2
27.5°	1231.1	1228.2	1222.4	1218.6	1220.5
30°	1198.4	1194.6	1187.9	1183.1	1185.0
32.5°	1163.9	1160.0	1152.3	1146.6	1148.5
35°	1128.3	1123.5	1113.9	1108.2	1110.1
37.5°	1088.9	1085.1	1074.5	1068.8	1071.7
40°	1048.6	1044.8	1033.3	1028.5	1032.3
42.5°	1006.4	1002.5	990.0	985.2	991.0
45°	962.2	957.4	945.9	943.0	950.7
47.5°	918.0	911.3	899.8	897.9	907.5
50°	868.1	863.3	851.8	852.7	864.2
52.5°	818.2	814.3	802.8	806.6	817.2
55°	769.2	761.5	750.9	757.7	771.1
57.5°	712.5	707.7	698.1	708.7	723.1
60°	657.8	653.9	644.3	657.8	676.0
62.5°	604.0	596.3	587.7	606.9	626.1
65°	546.4	539.7	532.0	552.2	569.4
67.5°	486.9	480.1	474.4	492.6	505.1
70°	426.4	420.6	416.8	422.5	427.3
72.5°	365.9	360.1	357.2	343.8	339.9
75°	304.4	299.6	288.1	263.1	250.6
77.5°	242.9	237.2	218.0	194.0	194.9
80°	183.4	176.7	153.6	160.4	165.2
82.5°	124.8	120.0	115.2	113.3	114.3
85°	68.2	66.3	70.1	66.3	67.2
87.5°	27.8	28.8	30.7	29.8	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)