

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: P392982

Luminaire Tested: **14EN-LD2-18-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-49)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-18-UNV-L92765-W2A-1-U (4500K)
Description: 1X4 ENCOUNTER, 1800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1438.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

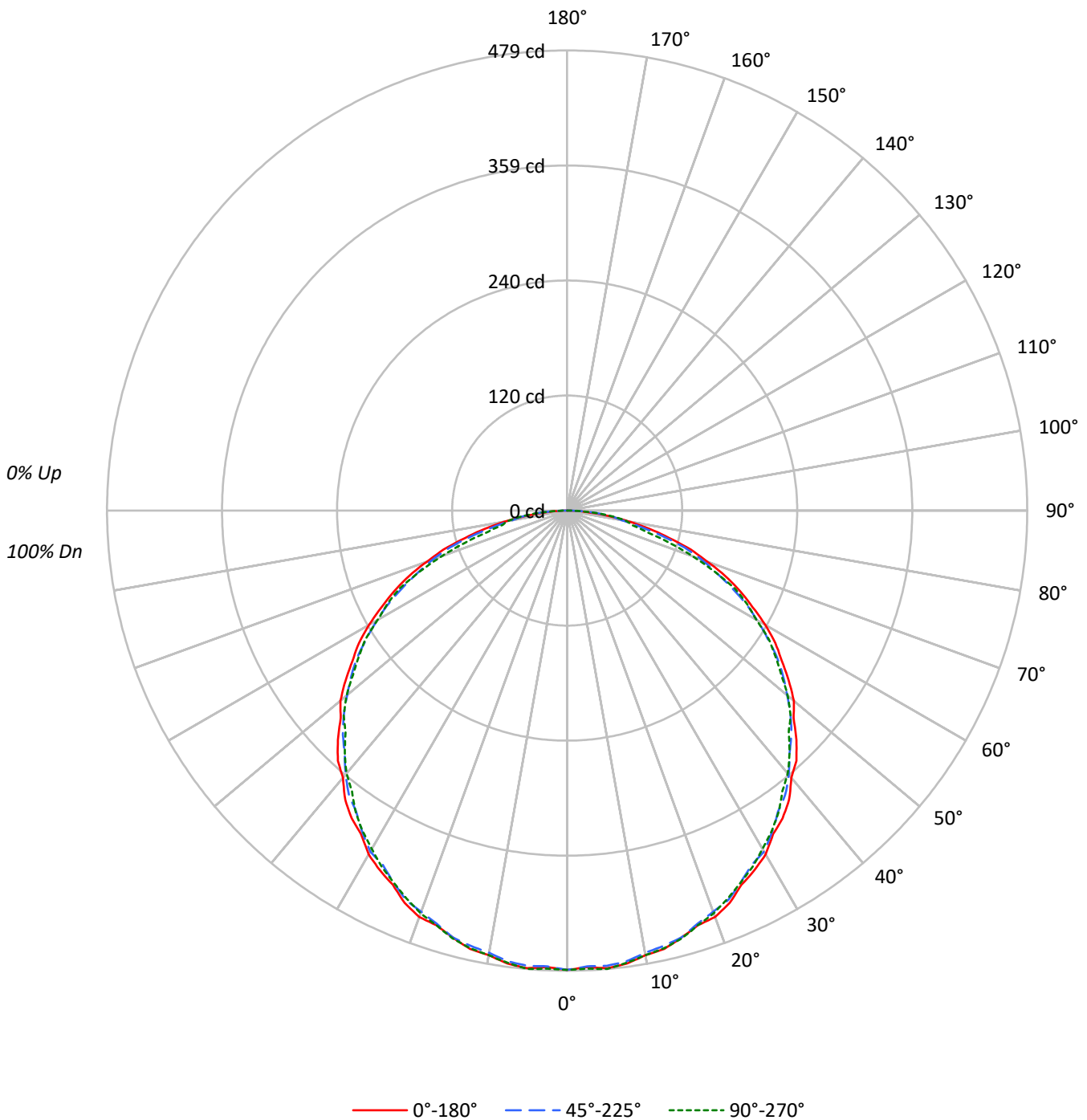
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49					49			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42					42			
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36					36			
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29					29			
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26					26			
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1287	1287	1287
5°	1291	1285	1294
10°	1284	1277	1284
15°	1282	1282	1284
20°	1289	1273	1277
25°	1276	1268	1268
30°	1284	1274	1263
35°	1284	1258	1260
40°	1276	1261	1255
45°	1285	1257	1241
50°	1290	1252	1255
55°	1279	1253	1241
60°	1282	1229	1225
65°	1266	1198	1230
70°	1222	1170	1092
75°	1145	1068	888
80°	1006	891	967
85°	735	963	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	3.1
10°-20°	129.9	9.0
20°-30°	197.7	13.7
30°-40°	241.2	16.8
40°-50°	255.7	17.8
50°-60°	239.1	16.6
60°-70°	189.2	13.2
70°-80°	107.4	7.5
80°-90°	32.6	2.3
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°	372.9	25.9
0°-40°	614.0	42.7
0°-60°	1108.9	77.1
0°-90°	1438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	478	476	476	476	479	45
15°	460	459	460	457	461	130
25°	430	430	427	430	427	199
35°	391	389	383	384	384	244
45°	338	334	330	327	326	260
55°	273	271	267	264	264	245
65°	199	196	188	190	193	196
75°	110	108	103	91	85	117
85°	24	26	31	31	31	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	478.1	478.1	478.1	478.1	478.1
2.5°	475.6	479.8	474.8	481.4	477.3
5°	478.1	476.5	475.6	475.6	478.9
7.5°	475.6	473.2	473.2	471.5	474.8
10°	469.9	473.2	467.4	474.0	469.9
12.5°	467.4	465.0	464.1	464.1	466.6
15°	460.0	459.2	460.0	456.7	460.9
17.5°	452.6	456.7	451.0	456.7	452.6
20°	450.2	447.7	444.4	446.1	446.1
22.5°	442.0	437.0	438.7	435.4	437.0
25°	429.6	430.5	427.2	430.5	427.2
27.5°	422.2	421.4	415.7	418.1	418.1
30°	413.2	409.1	409.9	404.2	406.6
32.5°	399.2	399.2	396.8	396.8	396.0
35°	391.0	388.6	382.8	384.5	383.6
37.5°	379.5	373.8	373.0	368.0	368.0
40°	363.1	362.3	359.0	356.5	357.3
42.5°	353.2	350.0	342.6	344.2	342.6
45°	337.6	333.5	330.2	327.0	326.1
47.5°	319.6	319.6	315.5	313.0	315.5
50°	308.1	305.6	299.0	299.0	299.8
52.5°	290.8	287.5	283.4	281.0	281.0
55°	272.7	271.1	267.0	263.7	264.5
57.5°	257.1	253.8	247.3	247.3	248.9
60°	238.2	234.9	228.4	227.6	227.6
62.5°	217.7	216.1	209.5	208.7	211.1
65°	198.8	195.5	188.1	189.8	193.1
67.5°	178.3	173.3	167.6	169.2	165.9
70°	155.3	152.8	148.7	142.9	138.8
72.5°	134.7	130.6	128.2	116.7	111.7
75°	110.1	107.6	102.7	91.2	85.4
77.5°	87.9	86.3	78.0	68.2	69.0
80°	64.9	67.4	57.5	60.0	62.4
82.5°	43.5	44.4	46.8	49.3	49.3
85°	23.8	26.3	31.2	31.2	31.2
87.5°	9.9	12.3	14.0	14.0	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)