

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: P393202

Luminaire Tested: **14EN-LD2-51-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-51-UNV-L92765-W2A-1-U (2700K)  
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3814.0 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

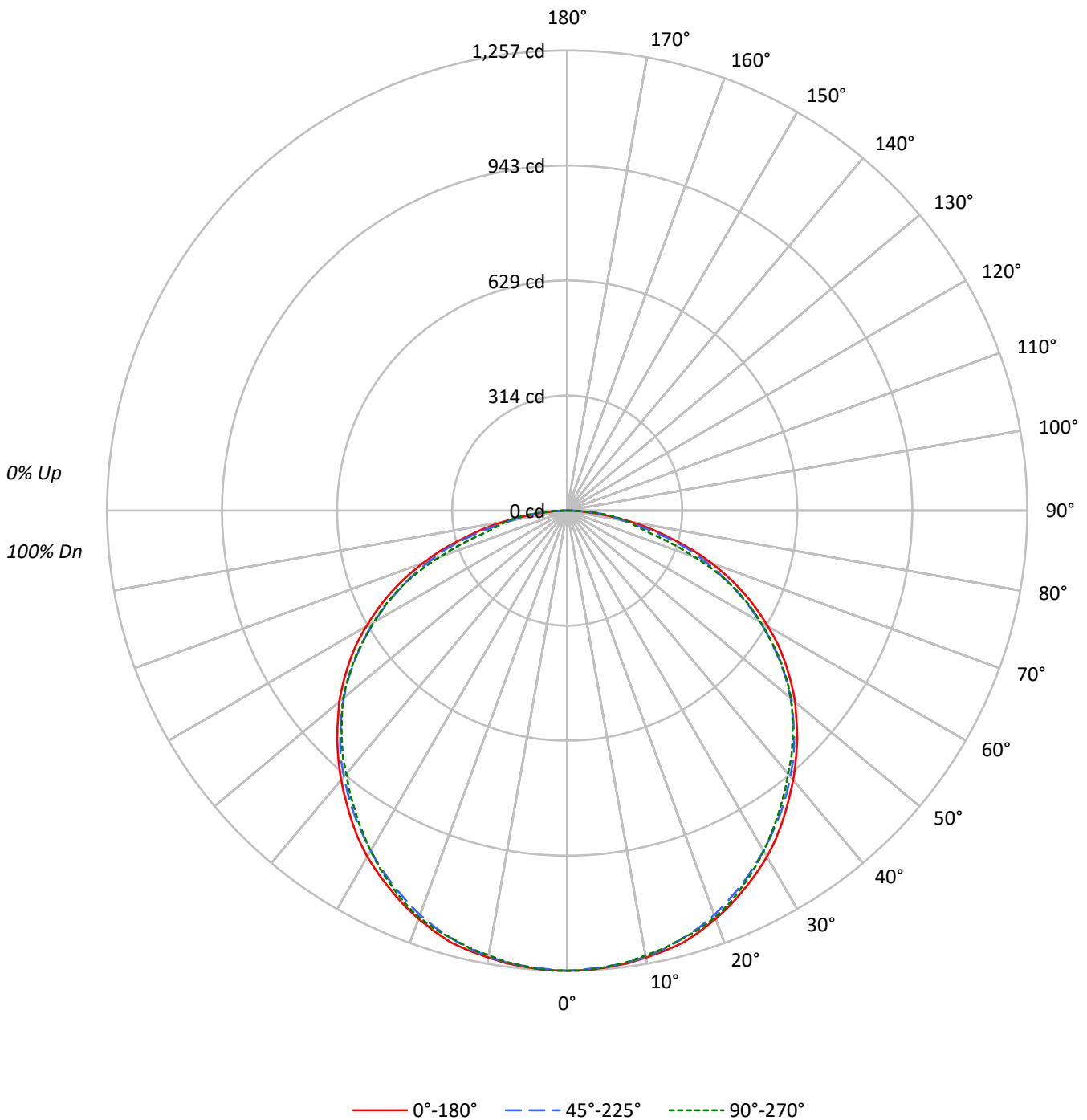
Input Watts (W): 50.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3383	3383	3383
5°	3384	3377	3380
10°	3388	3380	3371
15°	3404	3375	3373
20°	3398	3366	3385
25°	3392	3347	3363
30°	3393	3335	3337
35°	3380	3331	3309
40°	3374	3330	3298
45°	3382	3336	3316
50°	3403	3334	3343
55°	3415	3313	3327
60°	3409	3276	3284
65°	3388	3207	3226
70°	3295	3118	2917
75°	3066	2872	2388
80°	2710	2373	2594
85°	1945	2550	2597



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	3.1
10°-20°	342.7	9.0
20°-30°	521.4	13.7
30°-40°	636.9	16.7
40°-50°	678.4	17.8
50°-60°	636.2	16.7
60°-70°	505.0	13.2
70°-80°	287.4	7.5
80°-90°	86.6	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°	983.4	25.8
0°-40°	1620.3	42.5
0°-60°	2935.0	77.0
0°-90°	3814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3814.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1253	1256	1250	1259	1251	119
15°	1222	1217	1211	1213	1211	344
25°	1142	1132	1127	1125	1132	527
35°	1029	1024	1014	1012	1007	644
45°	889	887	877	871	871	686
55°	728	721	706	703	709	650
65°	532	522	504	507	507	525
75°	295	287	276	245	230	314
85°	63	70	83	82	84	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1257.1	1257.1	1257.1	1257.1	1257.1
2.5°	1256.3	1261.6	1254.1	1260.1	1257.1
5°	1252.6	1256.3	1250.3	1258.6	1251.1
7.5°	1248.1	1250.3	1245.8	1253.3	1244.3
10°	1239.8	1241.3	1236.8	1242.8	1233.8
12.5°	1231.6	1229.3	1226.3	1228.6	1224.1
15°	1221.8	1216.6	1211.3	1212.8	1210.6
17.5°	1205.3	1198.6	1194.8	1193.3	1199.3
20°	1186.5	1178.3	1175.3	1173.8	1182.0
22.5°	1166.3	1155.8	1152.0	1150.5	1160.3
25°	1142.3	1131.8	1127.3	1125.0	1132.5
27.5°	1117.5	1106.2	1101.0	1099.5	1104.7
30°	1092.0	1079.2	1073.2	1072.5	1074.0
32.5°	1062.0	1052.2	1043.2	1044.0	1041.0
35°	1028.9	1023.7	1013.9	1012.4	1007.2
37.5°	994.4	994.4	981.7	983.9	974.2
40°	960.6	961.4	947.9	948.6	938.9
42.5°	924.6	926.9	915.6	909.6	907.4
45°	888.6	887.1	876.6	870.6	871.3
47.5°	849.6	849.6	837.6	832.3	834.6
50°	812.8	809.8	796.3	791.8	798.5
52.5°	770.8	767.0	753.5	748.3	755.0
55°	728.0	721.2	706.2	703.2	709.2
57.5°	683.7	674.7	658.2	656.7	659.7
60°	633.4	625.9	608.7	605.7	610.2
62.5°	584.6	574.1	556.9	556.9	561.4
65°	532.1	521.6	503.6	507.3	506.6
67.5°	476.6	466.1	450.3	451.8	443.5
70°	418.8	406.8	396.3	382.0	370.7
72.5°	360.2	347.5	343.7	310.7	299.5
75°	294.9	287.4	276.2	244.7	229.7
77.5°	237.2	229.7	209.4	185.4	189.1
80°	174.9	176.4	153.1	162.1	167.4
82.5°	114.8	118.6	123.8	130.6	132.1
85°	63.0	70.5	82.6	81.8	84.1
87.5°	24.8	33.0	36.0	37.5	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)