

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: P271944

Luminaire Tested: **14CZ2-35-S-UNV-L950-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P271944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-35-S-UNV-L950-CD1-U  
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 90CRI  
Light Source: (84) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

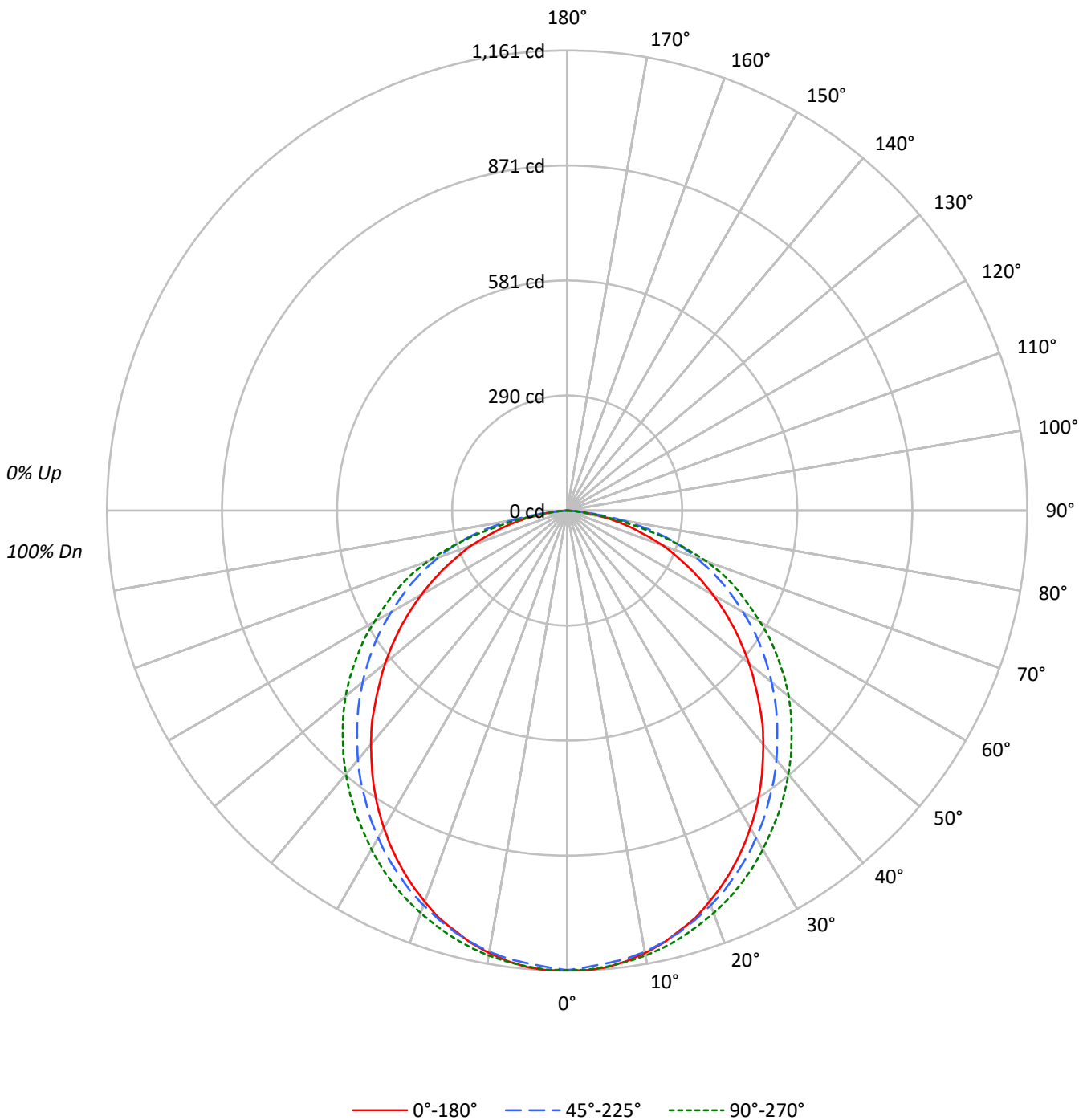
Lumens per Lamp: N/A  
Luminaire Lumens: 3248.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.2  
Input Voltage (V): NR  
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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	3120	3120	3120
5°	3123	3097	3119
10°	3098	3089	3116
15°	3055	3064	3105
20°	3007	3034	3094
25°	2945	2998	3084
30°	2872	2962	3068
35°	2793	2920	3058
40°	2704	2885	3049
45°	2605	2850	3046
50°	2508	2818	3054
55°	2403	2795	3045
60°	2288	2756	3025
65°	2153	2748	3025
70°	2028	2724	2939
75°	1758	2663	2512
80°	1423	2146	1672
85°	945	747	497



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.5	3.4
10°-20°	311.6	9.6
20°-30°	467.3	14.4
30°-40°	557.5	17.2
40°-50°	576.3	17.7
50°-60°	526.2	16.2
60°-70°	414.1	12.7
70°-80°	241.1	7.4
80°-90°	44.4	1.4
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°	888.4	27.4
0°-40°	1445.9	44.5
0°-60°	2548.4	78.5
0°-90°	3248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1156	1153	1147	1156	1155	110
15°	1097	1098	1100	1114	1114	309
25°	992	997	1010	1034	1039	457
35°	850	862	889	923	931	531
45°	684	707	749	791	800	529
55°	512	540	596	639	649	458
65°	338	374	432	465	475	336
75°	169	209	256	251	242	180
85°	31	44	24	19	16	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1159.5	1159.5	1159.5	1159.5	1159.5
2.5°	1161.1	1157.9	1153.0	1161.1	1159.5
5°	1156.3	1153.0	1146.6	1156.3	1154.7
7.5°	1146.6	1143.4	1140.2	1149.8	1148.2
10°	1133.7	1132.1	1130.5	1141.8	1140.2
12.5°	1117.6	1117.6	1116.0	1128.9	1128.9
15°	1096.7	1098.3	1099.9	1114.4	1114.4
17.5°	1077.4	1075.7	1080.6	1096.7	1098.3
20°	1050.0	1053.2	1059.6	1079.0	1080.6
22.5°	1022.6	1025.8	1037.1	1056.4	1061.2
25°	992.0	996.8	1009.7	1033.9	1038.7
27.5°	959.8	966.2	983.9	1009.7	1014.5
30°	924.4	934.0	953.4	982.3	987.2
32.5°	888.9	898.6	922.8	951.7	958.2
35°	850.3	861.6	888.9	922.8	930.8
37.5°	810.0	824.5	856.7	890.5	900.2
40°	769.8	785.9	821.3	856.7	868.0
42.5°	729.5	745.6	784.3	824.5	835.8
45°	684.4	707.0	748.8	790.7	800.4
47.5°	640.9	665.1	711.8	753.7	766.5
50°	599.1	623.2	673.1	716.6	729.5
52.5°	555.6	581.4	634.5	679.6	690.9
55°	512.1	539.5	595.8	639.3	649.0
57.5°	468.6	497.6	555.6	597.5	608.7
60°	425.1	455.7	512.1	554.0	562.0
62.5°	381.7	413.9	471.8	508.9	516.9
65°	338.2	373.6	431.6	465.4	475.1
67.5°	296.3	331.7	388.1	420.3	428.4
70°	257.7	289.9	346.2	370.4	373.6
72.5°	209.4	249.6	304.4	317.2	309.2
75°	169.1	209.4	256.1	251.2	241.6
77.5°	128.8	169.1	199.7	183.6	170.7
80°	91.8	132.1	138.5	114.3	107.9
82.5°	59.6	91.8	77.3	59.6	48.3
85°	30.6	43.5	24.2	19.3	16.1
87.5°	9.7	6.4	3.2	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)