

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: P271900

Luminaire Tested: **14CZ2-25-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: P271900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-UNV-L950-CD1-U  
Description: 1'X4' TROFFER LED MODULE, RIBBED LENS, 90CRI  
Light Source: (84) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

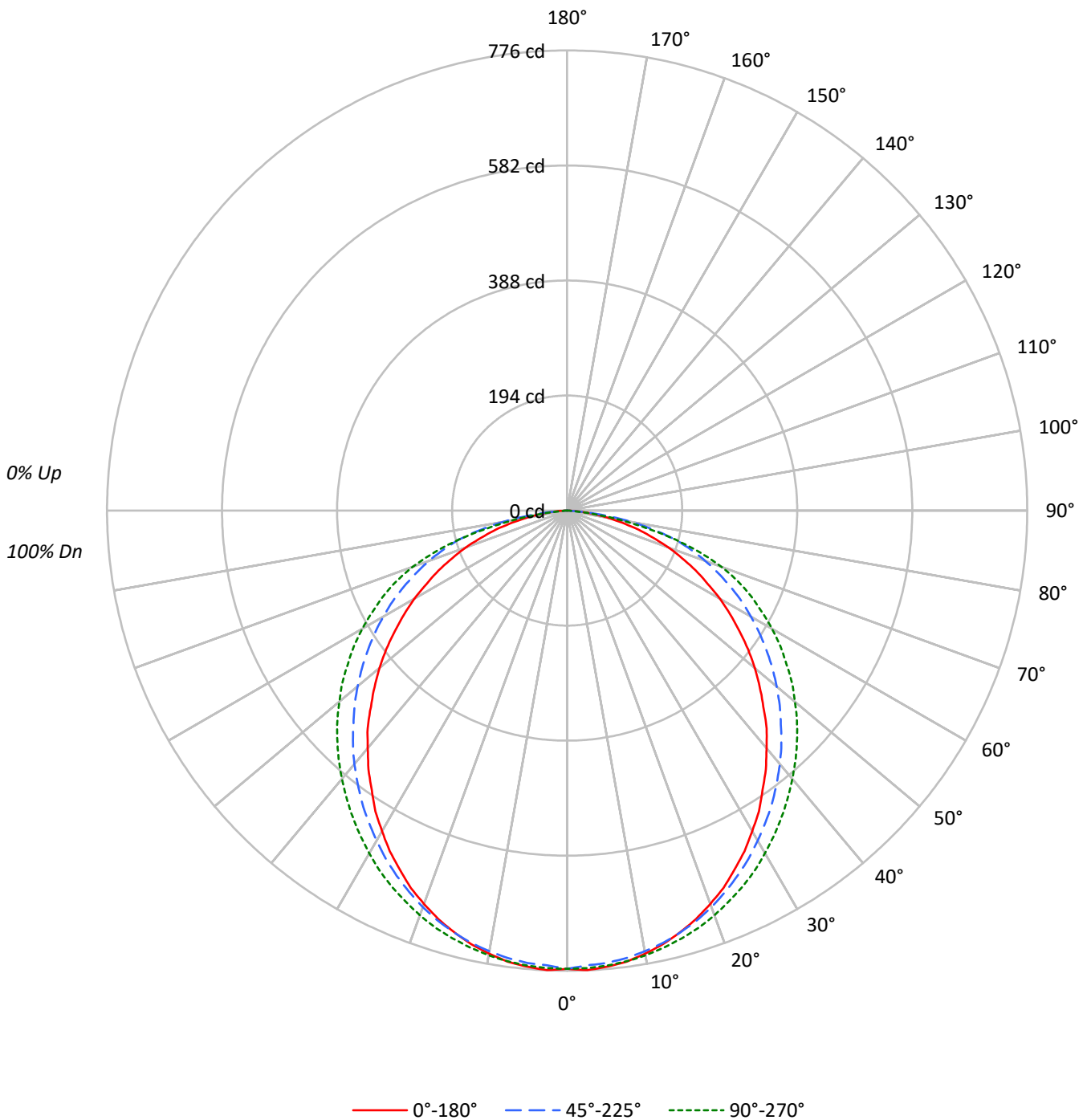
Lumens per Lamp: N/A  
Luminaire Lumens: 2243.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.5  
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	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	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	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	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	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	37	30	26	37	30	25	36	30	25	24					24			

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

	0°	45°	90°
0°	2079	2079	2079
5°	2086	2068	2081
10°	2073	2062	2081
15°	2051	2052	2080
20°	2021	2038	2080
25°	1983	2018	2078
30°	1940	1997	2073
35°	1888	1980	2072
40°	1838	1961	2075
45°	1781	1939	2086
50°	1729	1930	2100
55°	1664	1924	2119
60°	1604	1927	2148
65°	1522	1933	2181
70°	1429	1948	2180
75°	1294	1966	1971
80°	1062	1697	1402
85°	787	803	324



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.1	3.3
10°-20°	208.9	9.3
20°-30°	314.7	14.0
30°-40°	377.6	16.8
40°-50°	393.5	17.5
50°-60°	364.3	16.2
60°-70°	294.4	13.1
70°-80°	179.5	8.0
80°-90°	37.0	1.7
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°	596.6	26.6
0°-40°	974.2	43.4
0°-60°	1732.1	77.2
0°-90°	2243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2243.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	772	770	766	771	770	73
15°	736	737	737	747	747	208
25°	668	672	680	697	700	308
35°	575	584	603	625	631	360
45°	468	482	510	538	548	362
55°	355	373	410	442	452	318
65°	239	263	304	334	343	236
75°	124	152	189	192	190	131
85°	26	38	26	14	10	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	772.7	772.7	772.7	772.7	772.7
2.5°	775.7	773.2	767.7	773.2	772.2
5°	772.2	770.2	765.7	771.2	770.2
7.5°	767.2	765.2	761.2	767.7	766.7
10°	758.7	757.7	754.7	762.2	761.7
12.5°	748.7	748.2	746.7	755.2	754.7
15°	736.2	736.7	736.7	746.7	746.7
17.5°	722.2	723.2	725.2	736.2	737.7
20°	705.7	707.7	711.7	724.2	726.2
22.5°	688.7	690.2	696.2	711.2	713.2
25°	667.7	671.7	679.7	696.7	699.7
27.5°	647.7	651.2	662.2	679.7	684.7
30°	624.2	629.7	642.7	661.7	667.2
32.5°	601.7	607.7	622.7	644.7	649.7
35°	574.7	583.7	602.7	624.7	630.7
37.5°	550.2	558.7	580.2	604.2	611.2
40°	523.1	533.7	558.2	583.7	590.7
42.5°	498.1	508.1	534.7	560.7	570.2
45°	468.1	482.1	509.6	538.2	548.2
47.5°	440.6	454.6	486.1	516.6	525.7
50°	413.1	428.1	461.1	492.6	501.6
52.5°	384.6	400.6	436.1	467.6	478.1
55°	354.6	373.1	410.1	442.1	451.6
57.5°	326.1	345.1	384.6	417.1	426.6
60°	298.1	317.6	358.1	389.1	399.1
62.5°	267.1	290.1	332.1	362.6	370.1
65°	239.1	262.6	303.6	334.1	342.6
67.5°	209.6	235.1	276.1	304.1	312.1
70°	181.6	208.1	247.6	273.6	277.1
72.5°	151.5	178.6	218.6	235.1	235.1
75°	124.5	152.0	189.1	192.1	189.6
77.5°	95.0	125.5	149.5	143.5	137.5
80°	68.5	98.5	109.5	98.5	90.5
82.5°	46.0	71.5	66.0	52.5	46.5
85°	25.5	38.0	26.0	14.5	10.5
87.5°	9.5	8.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)