

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: P271934

Luminaire Tested: **14CZ2-25-S-UNV-L935-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: P271934  
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: 14CZ2-25-S-UNV-L935-CD1-U  
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 90CRI  
Light Source: (84) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

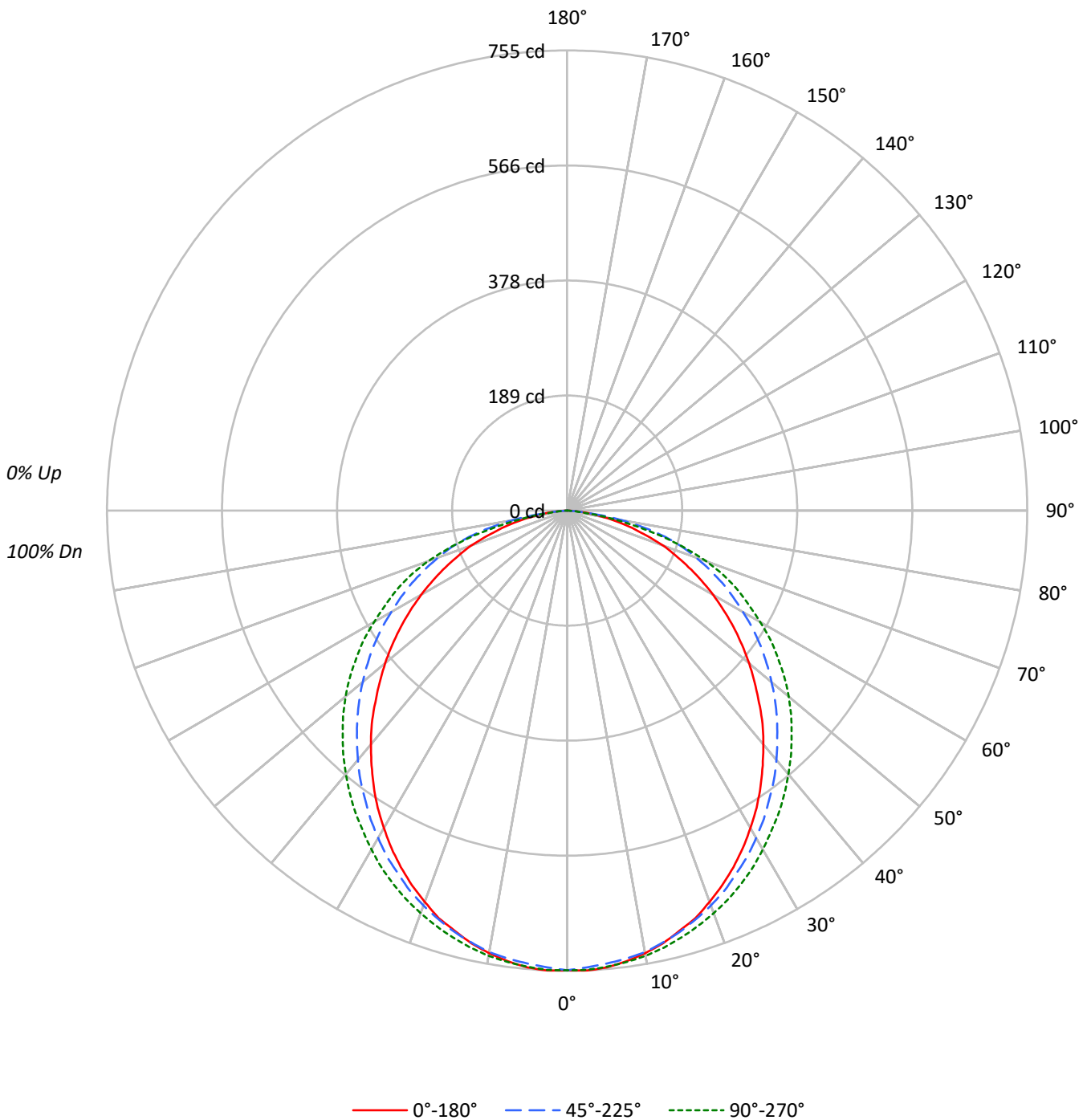
Lumens per Lamp: N/A  
Luminaire Lumens: 2113.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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	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°	2030	2030	2030
5°	2032	2015	2029
10°	2015	2009	2027
15°	1987	1993	2020
20°	1956	1974	2013
25°	1916	1950	2006
30°	1868	1927	1995
35°	1817	1900	1989
40°	1759	1877	1984
45°	1695	1854	1982
50°	1631	1833	1987
55°	1563	1818	1981
60°	1489	1793	1968
65°	1401	1788	1968
70°	1319	1772	1913
75°	1144	1732	1633
80°	925	1396	1088
85°	614	485	324



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	3.4
10°-20°	202.7	9.6
20°-30°	304.0	14.4
30°-40°	362.7	17.2
40°-50°	375.0	17.7
50°-60°	342.3	16.2
60°-70°	269.4	12.7
70°-80°	156.8	7.4
80°-90°	28.9	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°	578.0	27.4
0°-40°	940.6	44.5
0°-60°	1657.9	78.5
0°-90°	2113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2113.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	752	750	746	752	751	71
15°	713	714	716	725	725	201
25°	645	648	657	673	676	297
35°	553	560	578	600	606	346
45°	445	460	487	514	521	344
55°	333	351	388	416	422	298
65°	220	243	281	303	309	218
75°	110	136	167	163	157	117
85°	20	28	16	13	10	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	754.3	754.3	754.3	754.3	754.3
2.5°	755.4	753.3	750.1	755.4	754.3
5°	752.2	750.1	745.9	752.2	751.2
7.5°	745.9	743.8	741.7	748.0	747.0
10°	737.5	736.5	735.4	742.8	741.7
12.5°	727.1	727.1	726.0	734.4	734.4
15°	713.4	714.5	715.5	725.0	725.0
17.5°	700.9	699.8	703.0	713.4	714.5
20°	683.1	685.2	689.4	701.9	703.0
22.5°	665.3	667.4	674.7	687.3	690.4
25°	645.4	648.5	656.9	672.6	675.7
27.5°	624.4	628.6	640.1	656.9	660.0
30°	601.3	607.6	620.2	639.1	642.2
32.5°	578.3	584.6	600.3	619.2	623.4
35°	553.2	560.5	578.3	600.3	605.5
37.5°	527.0	536.4	557.3	579.3	585.6
40°	500.8	511.3	534.3	557.3	564.7
42.5°	474.6	485.1	510.2	536.4	543.7
45°	445.3	459.9	487.2	514.4	520.7
47.5°	417.0	432.7	463.1	490.3	498.7
50°	389.7	405.4	437.9	466.2	474.6
52.5°	361.4	378.2	412.8	442.1	449.4
55°	333.2	351.0	387.6	415.9	422.2
57.5°	304.9	323.7	361.4	388.7	396.0
60°	276.6	296.5	333.2	360.4	365.6
62.5°	248.3	269.2	307.0	331.1	336.3
65°	220.0	243.1	280.8	302.8	309.1
67.5°	192.8	215.8	252.5	273.4	278.7
70°	167.6	188.6	225.2	241.0	243.1
72.5°	136.2	162.4	198.0	206.4	201.1
75°	110.0	136.2	166.6	163.4	157.1
77.5°	83.8	110.0	129.9	119.4	111.1
80°	59.7	85.9	90.1	74.4	70.2
82.5°	38.8	59.7	50.3	38.8	31.4
85°	19.9	28.3	15.7	12.6	10.5
87.5°	6.3	4.2	2.1	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)