

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: P275683

Luminaire Tested: **14CZ2-25-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275683  
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-L92765-W2A1-U-4500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2221.0 lumens  
Efficiency: N/A  
Efficacy: 119.4 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

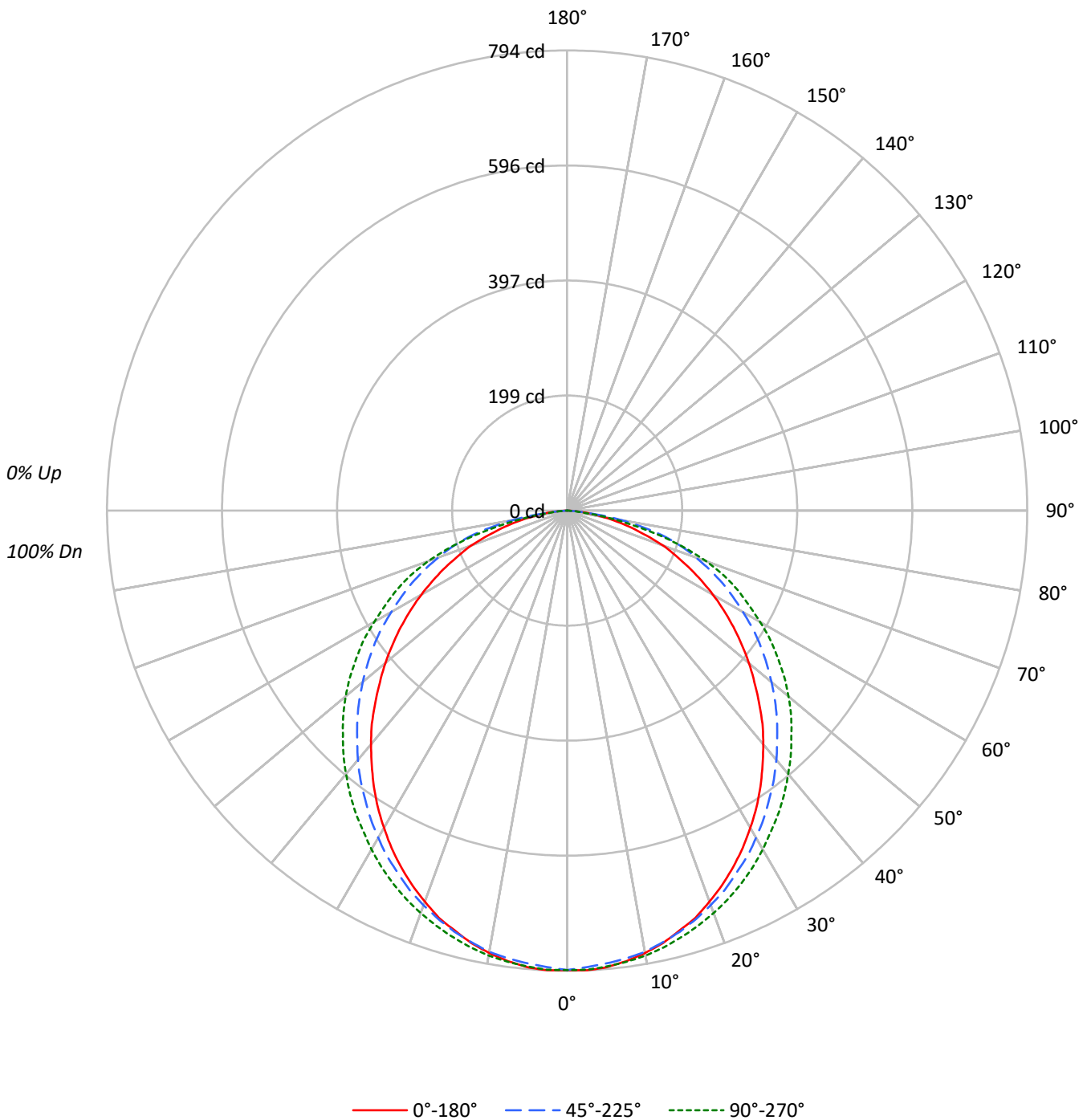
Input Watts (W): 18.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2134	2134	2134
5°	2136	2118	2133
10°	2118	2112	2130
15°	2089	2095	2123
20°	2056	2075	2116
25°	2014	2050	2109
30°	1964	2026	2097
35°	1910	1997	2091
40°	1849	1973	2085
45°	1781	1949	2083
50°	1715	1927	2088
55°	1643	1911	2082
60°	1565	1885	2068
65°	1473	1879	2069
70°	1386	1863	2010
75°	1202	1821	1718
80°	973	1468	1144
85°	645	509	340



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.9	3.4
10°-20°	213.0	9.6
20°-30°	319.6	14.4
30°-40°	381.2	17.2
40°-50°	394.1	17.7
50°-60°	359.8	16.2
60°-70°	283.2	12.7
70°-80°	164.8	7.4
80°-90°	30.4	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°	607.5	27.4
0°-40°	988.7	44.5
0°-60°	1742.6	78.5
0°-90°	2221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2221.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	791	788	784	791	790	75
15°	750	751	752	762	762	212
25°	678	682	690	707	710	312
35°	581	589	608	631	636	363
45°	468	483	512	541	547	361
55°	350	369	407	437	444	313
65°	231	256	295	318	325	230
75°	116	143	175	172	165	123
85°	21	30	16	13	11	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	792.9	792.9	792.9	792.9	792.9
2.5°	794.0	791.8	788.5	794.0	792.9
5°	790.7	788.5	784.1	790.7	789.6
7.5°	784.1	781.8	779.6	786.3	785.2
10°	775.2	774.1	773.0	780.7	779.6
12.5°	764.2	764.2	763.1	771.9	771.9
15°	749.9	751.0	752.1	762.0	762.0
17.5°	736.7	735.6	738.9	749.9	751.0
20°	718.0	720.2	724.6	737.8	738.9
22.5°	699.3	701.5	709.2	722.4	725.7
25°	678.3	681.6	690.4	707.0	710.3
27.5°	656.3	660.7	672.8	690.4	693.8
30°	632.1	638.7	651.9	671.7	675.0
32.5°	607.9	614.5	631.0	650.8	655.2
35°	581.4	589.1	607.9	631.0	636.5
37.5°	553.9	563.8	585.8	609.0	615.6
40°	526.4	537.4	561.6	585.8	593.5
42.5°	498.8	509.9	536.3	563.8	571.5
45°	468.0	483.4	512.1	540.7	547.3
47.5°	438.3	454.8	486.7	515.4	524.2
50°	409.6	426.2	460.3	490.0	498.8
52.5°	379.9	397.5	433.9	464.7	472.4
55°	350.2	368.9	407.4	437.2	443.8
57.5°	320.4	340.3	379.9	408.5	416.3
60°	290.7	311.6	350.2	378.8	384.3
62.5°	261.0	283.0	322.7	348.0	353.5
65°	231.3	255.5	295.1	318.2	324.9
67.5°	202.6	226.8	265.4	287.4	292.9
70°	176.2	198.2	236.8	253.3	255.5
72.5°	143.2	170.7	208.1	216.9	211.4
75°	115.6	143.2	175.1	171.8	165.2
77.5°	88.1	115.6	136.5	125.5	116.7
80°	62.8	90.3	94.7	78.2	73.8
82.5°	40.7	62.8	52.9	40.7	33.0
85°	20.9	29.7	16.5	13.2	11.0
87.5°	6.6	4.4	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)