

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: P275685

Luminaire Tested: **14CZ2-25-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275685
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-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2301.0 lumens
Efficiency: N/A
Efficacy: 122.5 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

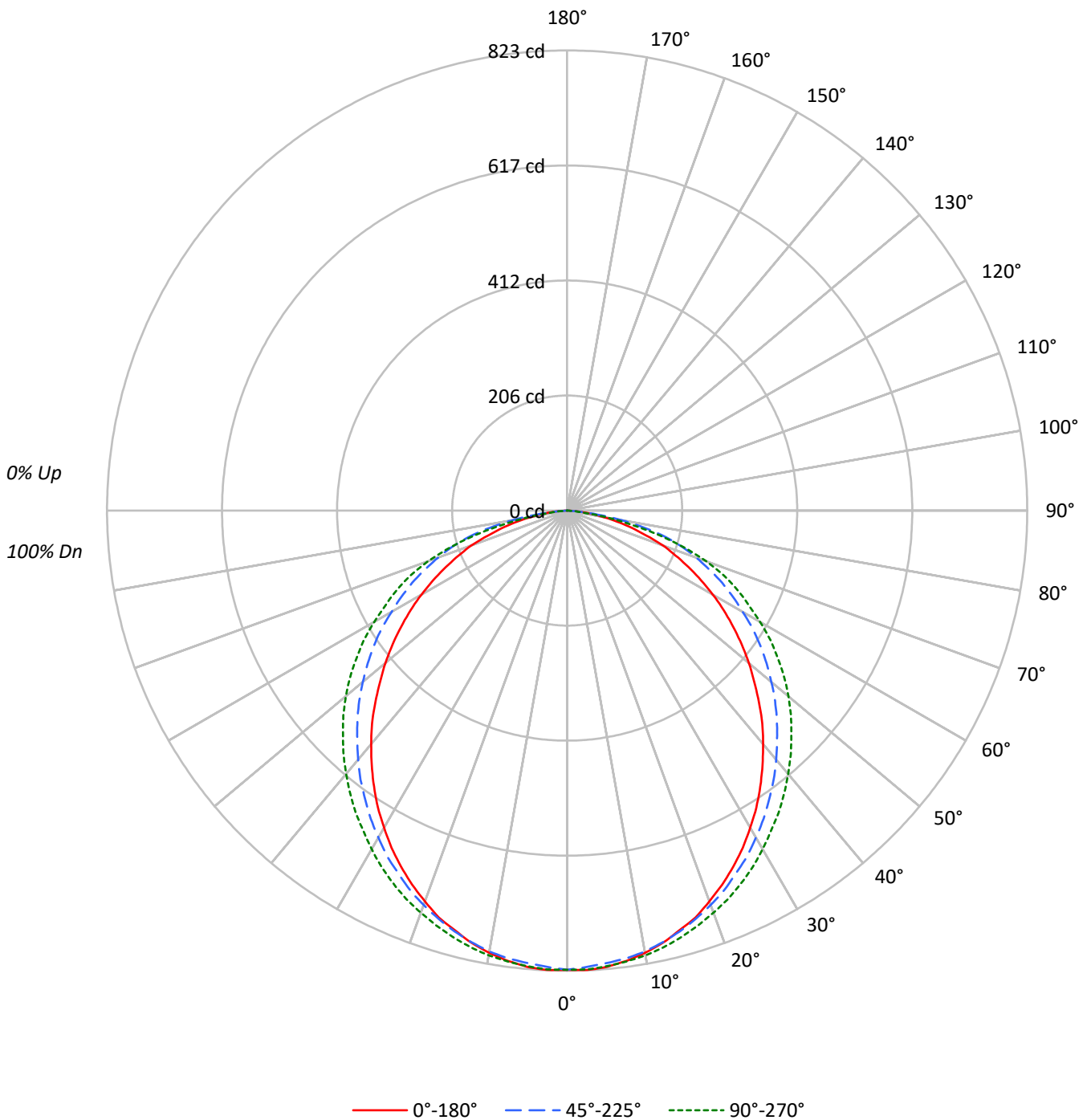
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2210	2210	2210
5°	2213	2194	2210
10°	2195	2188	2207
15°	2164	2171	2199
20°	2130	2150	2192
25°	2087	2124	2185
30°	2035	2099	2173
35°	1979	2069	2166
40°	1916	2044	2160
45°	1845	2019	2158
50°	1777	1997	2164
55°	1702	1980	2157
60°	1621	1953	2143
65°	1526	1947	2143
70°	1436	1930	2083
75°	1246	1886	1779
80°	1007	1520	1184
85°	670	528	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.4
10°-20°	220.7	9.6
20°-30°	331.1	14.4
30°-40°	394.9	17.2
40°-50°	408.3	17.7
50°-60°	372.8	16.2
60°-70°	293.4	12.7
70°-80°	170.8	7.4
80°-90°	31.5	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°	629.4	27.4
0°-40°	1024.3	44.5
0°-60°	1805.4	78.5
0°-90°	2301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	819	817	812	819	818	78
15°	777	778	779	790	790	219
25°	703	706	715	732	736	324
35°	602	610	630	654	659	377
45°	485	501	530	560	567	374
55°	363	382	422	453	460	324
65°	240	265	306	330	337	238
75°	120	148	181	178	171	127
85°	22	31	17	14	11	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.4	821.4	821.4	821.4	821.4
2.5°	822.6	820.3	816.9	822.6	821.4
5°	819.1	816.9	812.3	819.1	818.0
7.5°	812.3	810.0	807.7	814.6	813.4
10°	803.2	802.0	800.9	808.9	807.7
12.5°	791.8	791.8	790.6	799.7	799.7
15°	776.9	778.1	779.2	789.5	789.5
17.5°	763.2	762.1	765.5	776.9	778.1
20°	743.8	746.1	750.7	764.4	765.5
22.5°	724.4	726.7	734.7	748.4	751.8
25°	702.8	706.2	715.3	732.4	735.9
27.5°	680.0	684.5	697.1	715.3	718.7
30°	654.9	661.7	675.4	695.9	699.3
32.5°	629.8	636.6	653.7	674.2	678.8
35°	602.4	610.4	629.8	653.7	659.4
37.5°	573.9	584.1	606.9	630.9	637.7
40°	545.3	556.7	581.8	606.9	614.9
42.5°	516.8	528.2	555.6	584.1	592.1
45°	484.9	500.8	530.5	560.2	567.0
47.5°	454.1	471.2	504.3	533.9	543.0
50°	424.4	441.5	476.9	507.7	516.8
52.5°	393.6	411.9	449.5	481.4	489.4
55°	362.8	382.2	422.1	452.9	459.8
57.5°	332.0	352.5	393.6	423.3	431.2
60°	301.2	322.9	362.8	392.5	398.2
62.5°	270.4	293.2	334.3	360.5	366.2
65°	239.6	264.7	305.8	329.7	336.6
67.5°	209.9	235.0	274.9	297.8	303.5
70°	182.5	205.4	245.3	262.4	264.7
72.5°	148.3	176.8	215.6	224.7	219.0
75°	119.8	148.3	181.4	178.0	171.1
77.5°	91.3	119.8	141.5	130.1	120.9
80°	65.0	93.6	98.1	81.0	76.4
82.5°	42.2	65.0	54.8	42.2	34.2
85°	21.7	30.8	17.1	13.7	11.4
87.5°	6.8	4.6	2.3	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)