

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: P275517

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275517
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2277.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

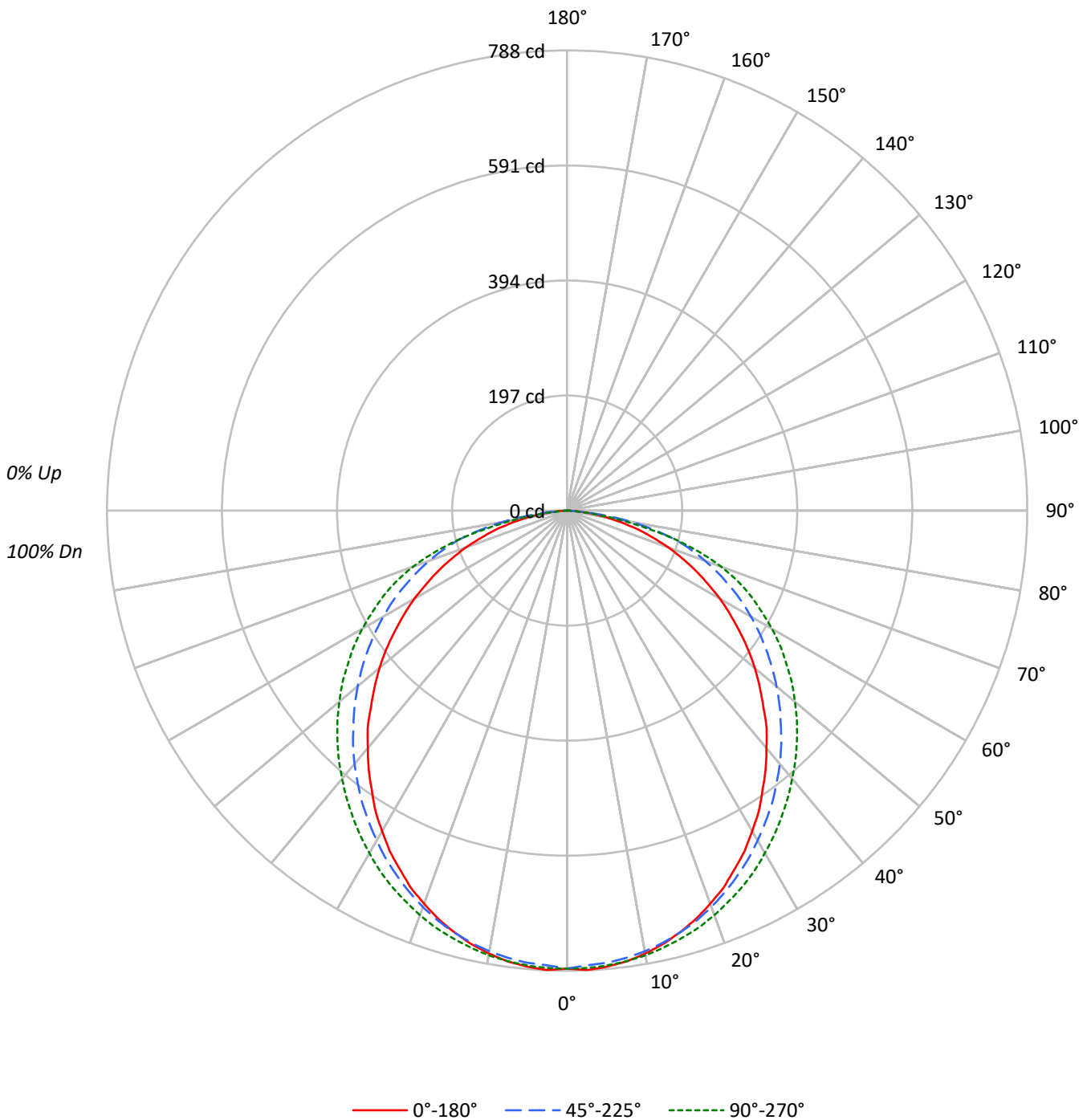
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2111	2111	2111
5°	2118	2100	2112
10°	2105	2094	2113
15°	2082	2084	2112
20°	2052	2069	2111
25°	2013	2049	2109
30°	1969	2027	2105
35°	1917	2010	2103
40°	1866	1990	2106
45°	1808	1969	2118
50°	1756	1960	2132
55°	1689	1953	2151
60°	1629	1956	2181
65°	1545	1962	2215
70°	1450	1977	2213
75°	1314	1995	2000
80°	1079	1723	1424
85°	800	815	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	3.3
10°-20°	212.0	9.3
20°-30°	319.4	14.0
30°-40°	383.3	16.8
40°-50°	399.5	17.5
50°-60°	369.8	16.2
60°-70°	298.8	13.1
70°-80°	182.2	8.0
80°-90°	37.6	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°	605.7	26.6
0°-40°	989.0	43.4
0°-60°	1758.3	77.2
0°-90°	2277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	784	782	777	783	782	74
15°	747	748	748	758	758	211
25°	678	682	690	707	710	312
35°	583	592	612	634	640	365
45°	475	489	517	546	556	367
55°	360	379	416	449	458	323
65°	243	267	308	339	348	240
75°	126	154	192	195	192	133
85°	26	39	26	15	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	784.4	784.4	784.4	784.4	784.4
2.5°	787.5	784.9	779.4	784.9	783.9
5°	783.9	781.9	777.3	782.9	781.9
7.5°	778.8	776.8	772.8	779.4	778.3
10°	770.2	769.2	766.2	773.8	773.3
12.5°	760.1	759.6	758.0	766.7	766.2
15°	747.4	747.9	747.9	758.0	758.0
17.5°	733.2	734.2	736.2	747.4	748.9
20°	716.4	718.4	722.5	735.2	737.2
22.5°	699.1	700.7	706.8	722.0	724.0
25°	677.8	681.9	690.0	707.3	710.3
27.5°	657.5	661.1	672.2	690.0	695.1
30°	633.6	639.2	652.4	671.7	677.3
32.5°	610.8	616.9	632.1	654.5	659.5
35°	583.4	592.5	611.8	634.1	640.2
37.5°	558.5	567.1	589.0	613.3	620.4
40°	531.1	541.7	566.6	592.5	599.6
42.5°	505.7	515.8	542.8	569.2	578.8
45°	475.2	489.4	517.4	546.3	556.5
47.5°	447.3	461.5	493.5	524.5	533.6
50°	419.4	434.6	468.1	500.1	509.2
52.5°	390.4	406.7	442.7	474.7	485.4
55°	360.0	378.8	416.3	448.8	458.5
57.5°	331.0	350.3	390.4	423.4	433.1
60°	302.6	322.4	363.5	395.0	405.2
62.5°	271.1	294.5	337.1	368.1	375.7
65°	242.7	266.6	308.2	339.2	347.8
67.5°	212.7	238.6	280.3	308.7	316.8
70°	184.3	211.2	251.3	277.7	281.3
72.5°	153.8	181.3	221.9	238.6	238.6
75°	126.4	154.3	191.9	195.0	192.4
77.5°	96.5	127.4	151.8	145.7	139.6
80°	69.6	100.0	111.2	100.0	91.9
82.5°	46.7	72.6	67.0	53.3	47.2
85°	25.9	38.6	26.4	14.7	10.7
87.5°	9.6	8.6	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)