

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: P275591

Luminaire Tested: **14CZ2-25-S-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275591
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-L93050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1907.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

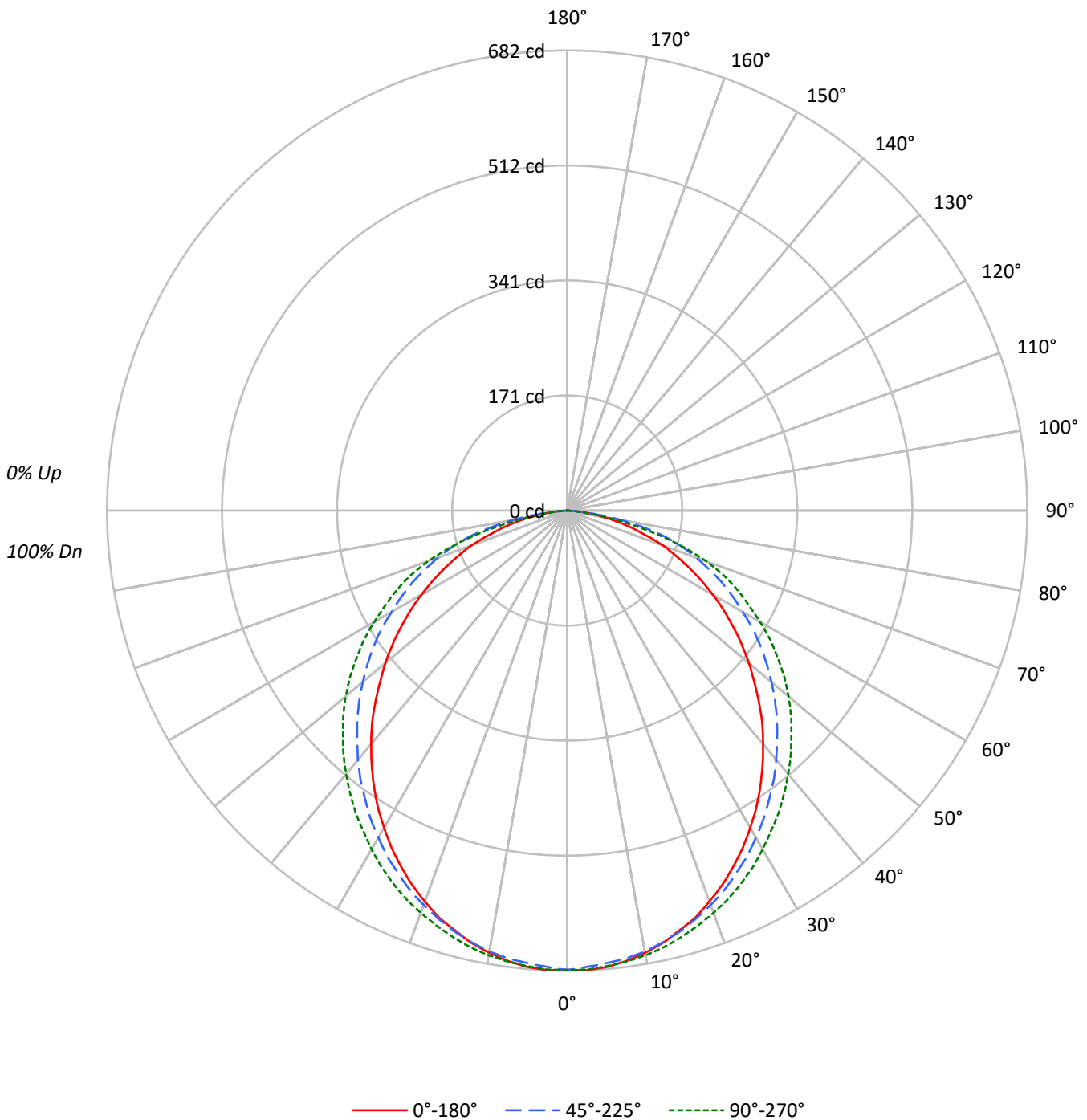
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1832	1832	1832
5°	1834	1818	1831
10°	1819	1814	1829
15°	1794	1799	1823
20°	1765	1781	1817
25°	1729	1760	1811
30°	1686	1739	1801
35°	1640	1714	1795
40°	1588	1694	1790
45°	1529	1673	1788
50°	1472	1654	1793
55°	1411	1641	1787
60°	1343	1618	1776
65°	1265	1613	1776
70°	1190	1600	1726
75°	1032	1563	1474
80°	835	1260	981
85°	556	438	293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	3.4
10°-20°	182.9	9.6
20°-30°	274.4	14.4
30°-40°	327.3	17.2
40°-50°	338.4	17.7
50°-60°	308.9	16.2
60°-70°	243.1	12.8
70°-80°	141.5	7.4
80°-90°	26.1	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°	521.6	27.4
0°-40°	848.9	44.5
0°-60°	1496.3	78.5
0°-90°	1907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	679	677	673	679	678	64
15°	644	645	646	654	654	182
25°	582	585	593	607	610	268
35°	499	506	522	542	546	312
45°	402	415	440	464	470	310
55°	301	317	350	375	381	269
65°	199	219	253	273	279	197
75°	99	123	150	148	142	106
85°	18	26	14	11	10	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.8	680.8	680.8	680.8	680.8
2.5°	681.7	679.8	677.0	681.7	680.8
5°	678.9	677.0	673.2	678.9	677.9
7.5°	673.2	671.3	669.4	675.1	674.1
10°	665.6	664.7	663.7	670.4	669.4
12.5°	656.2	656.2	655.2	662.8	662.8
15°	643.9	644.8	645.8	654.3	654.3
17.5°	632.5	631.6	634.4	643.9	644.8
20°	616.5	618.4	622.1	633.5	634.4
22.5°	600.4	602.3	608.9	620.3	623.1
25°	582.4	585.3	592.8	607.0	609.9
27.5°	563.5	567.3	577.7	592.8	595.7
30°	542.7	548.4	559.7	576.8	579.6
32.5°	521.9	527.6	541.8	558.8	562.6
35°	499.2	505.8	521.9	541.8	546.5
37.5°	475.6	484.1	503.0	522.9	528.5
40°	452.0	461.4	482.2	503.0	509.6
42.5°	428.3	437.8	460.5	484.1	490.7
45°	401.8	415.1	439.7	464.2	469.9
47.5°	376.3	390.5	417.9	442.5	450.1
50°	351.7	365.9	395.2	420.8	428.3
52.5°	326.2	341.3	372.5	399.0	405.6
55°	300.7	316.7	349.8	375.4	381.0
57.5°	275.1	292.2	326.2	350.8	357.4
60°	249.6	267.6	300.7	325.3	330.0
62.5°	224.1	243.0	277.0	298.8	303.5
65°	198.6	219.4	253.4	273.3	278.9
67.5°	174.0	194.8	227.9	246.8	251.5
70°	151.3	170.2	203.3	217.5	219.4
72.5°	122.9	146.6	178.7	186.3	181.5
75°	99.3	122.9	150.3	147.5	141.8
77.5°	75.6	99.3	117.2	107.8	100.2
80°	53.9	77.5	81.3	67.1	63.3
82.5°	35.0	53.9	45.4	35.0	28.4
85°	18.0	25.5	14.2	11.3	9.5
87.5°	5.7	3.8	1.9	1.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)