

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: P275516

Luminaire Tested: **14CZ2-25-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275516
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-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2242.0 lumens
Efficiency: N/A
Efficacy: 119.9 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

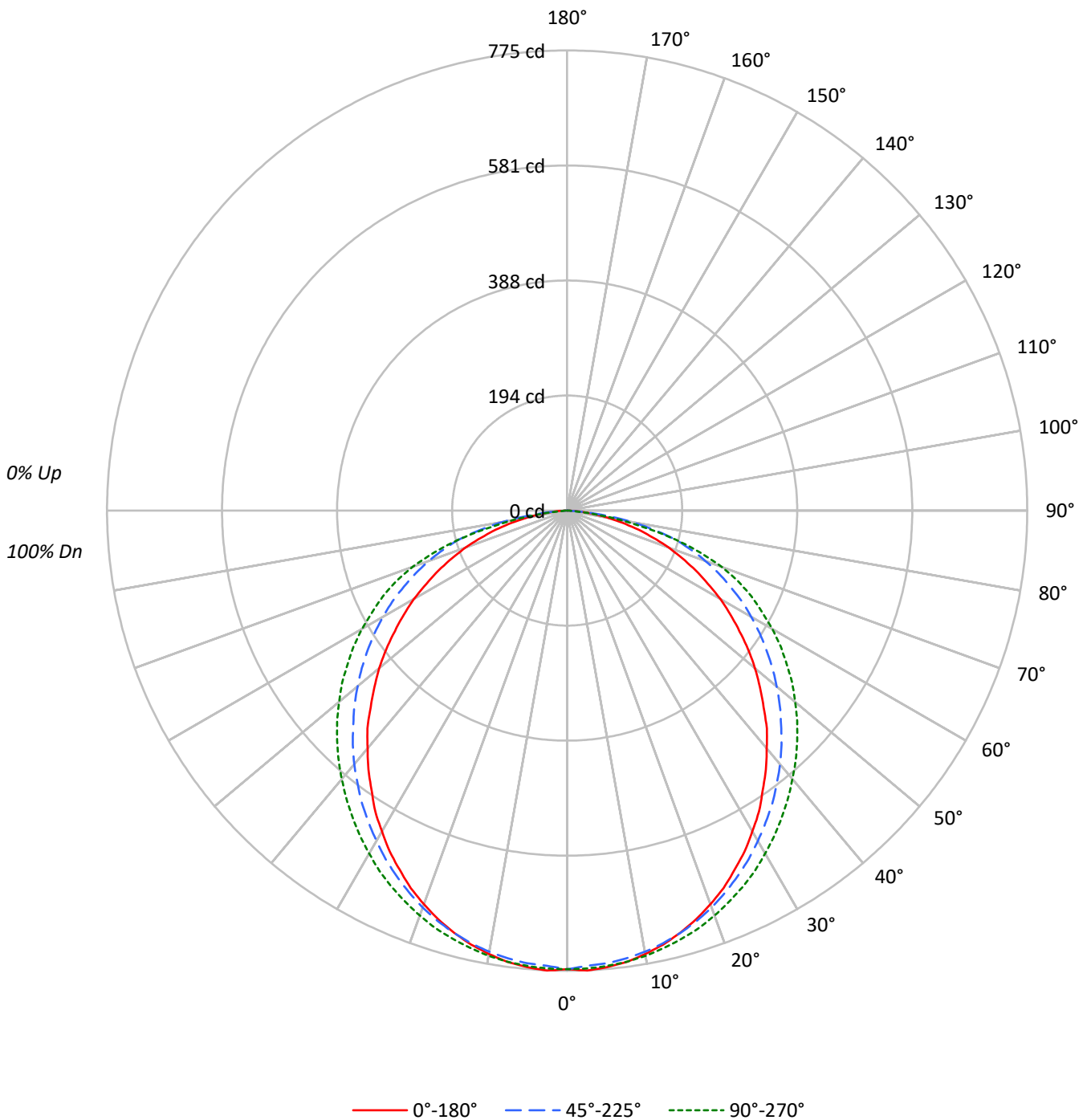
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2079	2079	2079
5°	2085	2068	2080
10°	2072	2061	2081
15°	2050	2052	2079
20°	2020	2037	2079
25°	1982	2017	2077
30°	1939	1996	2072
35°	1887	1979	2071
40°	1837	1960	2074
45°	1781	1939	2085
50°	1729	1930	2099
55°	1663	1923	2118
60°	1604	1926	2147
65°	1522	1933	2180
70°	1428	1947	2179
75°	1294	1965	1970
80°	1062	1697	1402
85°	787	803	324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.3
10°-20°	208.8	9.3
20°-30°	314.5	14.0
30°-40°	377.4	16.8
40°-50°	393.4	17.5
50°-60°	364.1	16.2
60°-70°	294.2	13.1
70°-80°	179.4	8.0
80°-90°	37.0	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°	596.4	26.6
0°-40°	973.8	43.4
0°-60°	1731.3	77.2
0°-90°	2242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	770	765	771	770	73
15°	736	736	736	746	746	207
25°	667	671	679	696	699	308
35°	574	583	602	624	630	360
45°	468	482	509	538	548	362
55°	354	373	410	442	451	318
65°	239	262	304	334	342	236
75°	124	152	189	192	190	131
85°	26	38	26	14	10	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.4	772.4	772.4	772.4	772.4
2.5°	775.4	772.9	767.4	772.9	771.9
5°	771.9	769.9	765.4	770.9	769.9
7.5°	766.9	764.9	760.9	767.4	766.4
10°	758.4	757.4	754.4	761.9	761.4
12.5°	748.4	747.9	746.4	754.9	754.4
15°	735.9	736.4	736.4	746.4	746.4
17.5°	721.9	722.9	724.9	735.9	737.4
20°	705.4	707.4	711.4	723.9	725.9
22.5°	688.4	689.9	695.9	710.9	712.9
25°	667.4	671.4	679.4	696.4	699.4
27.5°	647.4	650.9	661.9	679.4	684.4
30°	623.9	629.4	642.4	661.4	666.9
32.5°	601.4	607.4	622.4	644.4	649.4
35°	574.4	583.4	602.4	624.4	630.4
37.5°	549.9	558.4	579.9	603.9	610.9
40°	522.9	533.4	557.9	583.4	590.4
42.5°	497.9	507.9	534.4	560.4	569.9
45°	467.9	481.9	509.4	537.9	547.9
47.5°	440.4	454.4	485.9	516.4	525.4
50°	412.9	427.9	460.9	492.4	501.4
52.5°	384.4	400.4	435.9	467.4	477.9
55°	354.4	372.9	409.9	441.9	451.4
57.5°	325.9	344.9	384.4	416.9	426.4
60°	298.0	317.4	357.9	388.9	398.9
62.5°	267.0	290.0	331.9	362.4	369.9
65°	239.0	262.5	303.5	333.9	342.4
67.5°	209.5	235.0	276.0	304.0	312.0
70°	181.5	208.0	247.5	273.5	277.0
72.5°	151.5	178.5	218.5	235.0	235.0
75°	124.5	152.0	189.0	192.0	189.5
77.5°	95.0	125.5	149.5	143.5	137.5
80°	68.5	98.5	109.5	98.5	90.5
82.5°	46.0	71.5	66.0	52.5	46.5
85°	25.5	38.0	26.0	14.5	10.5
87.5°	9.5	8.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)