

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: P275534

Luminaire Tested: **14CZ2-35-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275534
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: 14CZ2-35-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: 3222.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

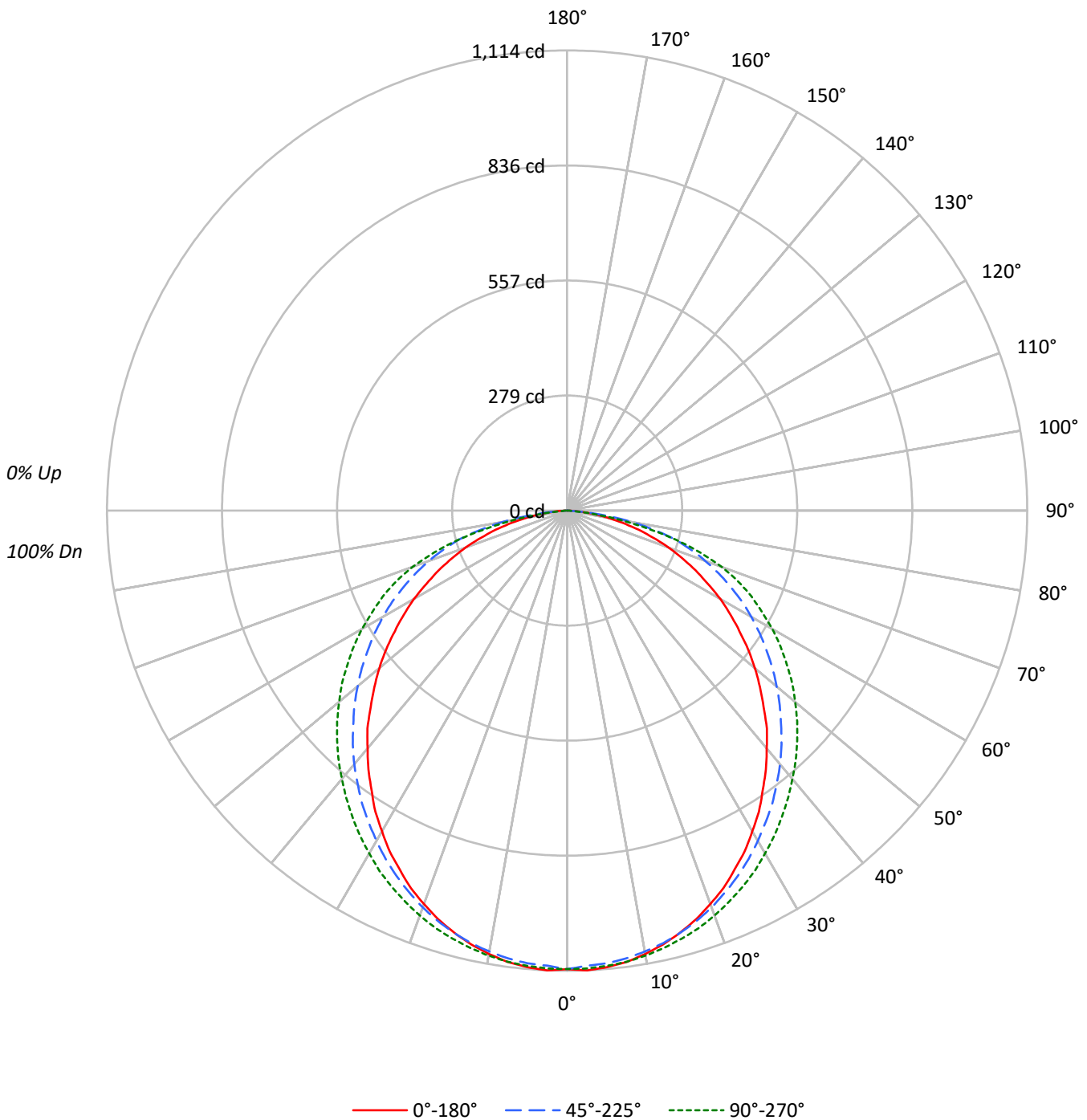
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2987	2987	2987
5°	2997	2971	2989
10°	2978	2962	2990
15°	2946	2948	2988
20°	2903	2928	2987
25°	2848	2899	2984
30°	2786	2869	2978
35°	2712	2844	2976
40°	2640	2817	2981
45°	2559	2786	2997
50°	2484	2773	3017
55°	2390	2764	3044
60°	2305	2768	3085
65°	2187	2777	3133
70°	2052	2798	3131
75°	1860	2824	2831
80°	1525	2438	2015
85°	1130	1155	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.3
10°-20°	300.0	9.3
20°-30°	452.0	14.0
30°-40°	542.4	16.8
40°-50°	565.3	17.5
50°-60°	523.4	16.2
60°-70°	422.8	13.1
70°-80°	257.8	8.0
80°-90°	53.2	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°	857.1	26.6
0°-40°	1399.4	43.4
0°-60°	2488.1	77.2
0°-90°	3222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1109	1106	1100	1108	1106	105
15°	1058	1058	1058	1073	1073	298
25°	959	965	976	1001	1005	442
35°	826	838	866	897	906	517
45°	672	693	732	773	787	520
55°	509	536	589	635	649	456
65°	343	377	436	480	492	340
75°	179	218	272	276	272	188
85°	37	55	37	21	15	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1110.0	1110.0	1110.0	1110.0	1110.0
2.5°	1114.3	1110.7	1102.8	1110.7	1109.3
5°	1109.3	1106.4	1099.9	1107.8	1106.4
7.5°	1102.1	1099.2	1093.5	1102.8	1101.4
10°	1089.9	1088.4	1084.1	1094.9	1094.2
12.5°	1075.5	1074.8	1072.6	1084.8	1084.1
15°	1057.5	1058.3	1058.3	1072.6	1072.6
17.5°	1037.4	1038.9	1041.7	1057.5	1059.7
20°	1013.7	1016.6	1022.3	1040.3	1043.2
22.5°	989.3	991.4	1000.1	1021.6	1024.5
25°	959.1	964.9	976.4	1000.8	1005.1
27.5°	930.4	935.4	951.2	976.4	983.5
30°	896.6	904.5	923.2	950.5	958.4
32.5°	864.3	872.9	894.5	926.1	933.3
35°	825.5	838.4	865.7	897.3	906.0
37.5°	790.3	802.5	833.4	867.9	877.9
40°	751.5	766.6	801.8	838.4	848.5
42.5°	715.6	729.9	768.0	805.4	819.0
45°	672.5	692.6	732.1	773.0	787.4
47.5°	632.9	653.1	698.3	742.1	755.1
50°	593.4	615.0	662.4	707.7	720.6
52.5°	552.5	575.5	626.5	671.7	686.8
55°	509.4	536.0	589.1	635.1	648.8
57.5°	468.4	495.7	552.5	599.2	612.8
60°	428.2	456.2	514.4	558.9	573.3
62.5°	383.6	416.7	477.0	520.9	531.6
65°	343.4	377.2	436.1	479.9	492.1
67.5°	301.0	337.7	396.6	436.8	448.3
70°	260.8	298.9	355.6	393.0	398.0
72.5°	217.7	256.5	314.0	337.7	337.7
75°	178.9	218.4	271.6	275.9	272.3
77.5°	136.5	180.3	214.8	206.2	197.6
80°	98.4	141.5	157.3	141.5	130.0
82.5°	66.1	102.7	94.8	75.4	66.8
85°	36.6	54.6	37.4	20.8	15.1
87.5°	13.7	12.2	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)