

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: P258785

Luminaire Tested: **14CZ-LD5-29-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-S-UNV-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2994.0 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

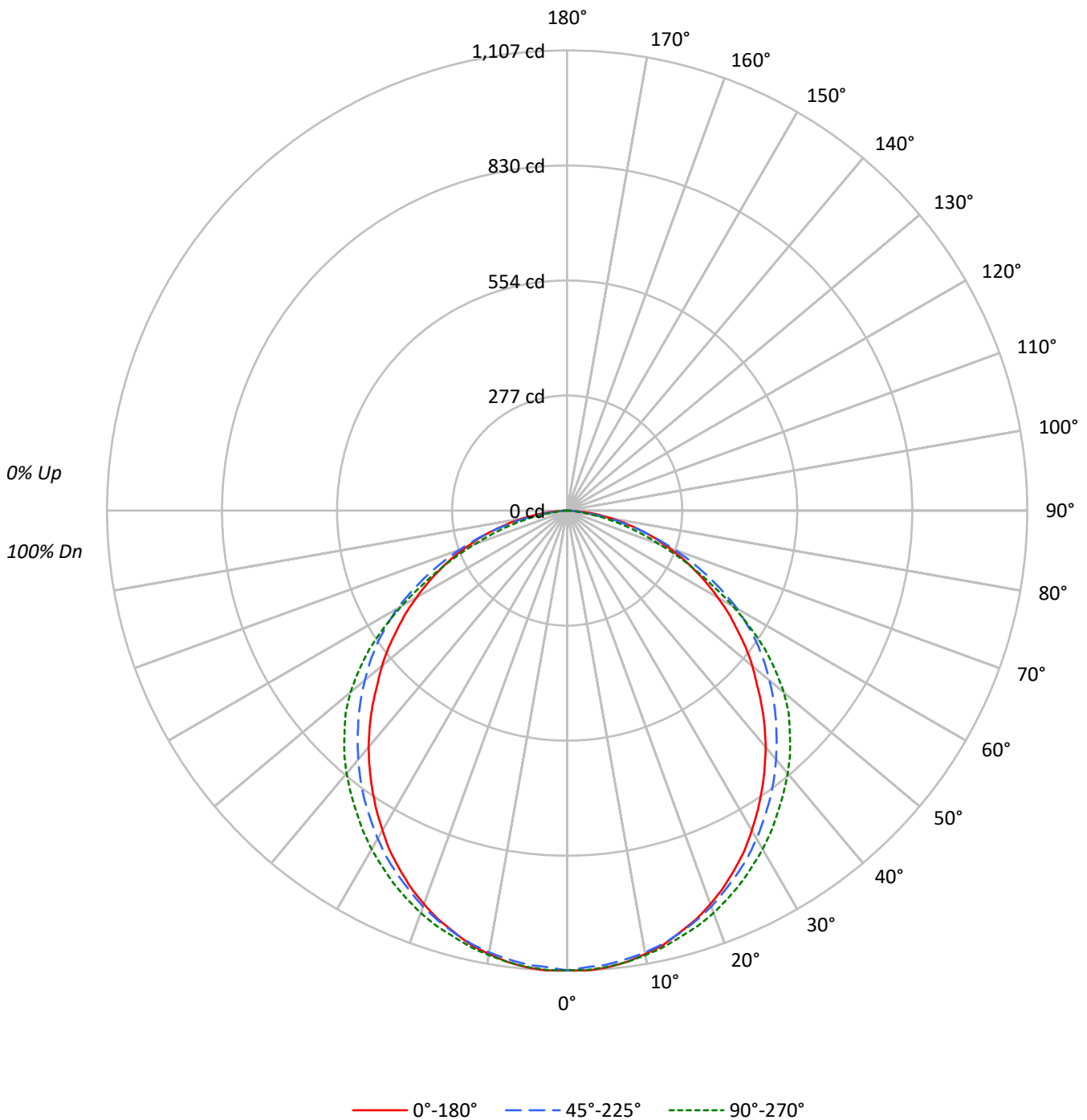
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2976	2976	2976
5°	2980	2962	2977
10°	2960	2949	2967
15°	2925	2929	2955
20°	2885	2903	2949
25°	2828	2868	2935
30°	2761	2831	2923
35°	2687	2792	2906
40°	2610	2746	2901
45°	2518	2701	2884
50°	2435	2658	2848
55°	2341	2616	2723
60°	2255	2542	2484
65°	2158	2379	2183
70°	2036	2162	1847
75°	1901	1873	1526
80°	1675	1447	1116
85°	1318	701	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	3.5
10°-20°	297.7	9.9
20°-30°	446.8	14.9
30°-40°	532.7	17.8
40°-50°	548.7	18.3
50°-60°	489.0	16.3
60°-70°	352.3	11.8
70°-80°	184.3	6.2
80°-90°	38.1	1.3
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°	849.0	28.4
0°-40°	1381.7	46.1
0°-60°	2419.3	80.8
0°-90°	2994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1103	1101	1097	1103	1102	105
15°	1050	1051	1051	1062	1061	296
25°	953	958	966	985	989	439
35°	818	828	850	878	884	511
45°	662	676	710	750	758	511
55°	499	515	558	583	580	447
65°	339	351	374	356	343	336
75°	183	192	180	156	147	194
85°	43	37	23	20	20	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1106.0	1106.0	1106.0	1106.0	1106.0
2.5°	1107.3	1104.7	1099.3	1106.0	1106.0
5°	1103.3	1100.6	1096.6	1103.3	1102.0
7.5°	1095.3	1092.6	1088.6	1096.6	1095.3
10°	1083.3	1082.0	1079.3	1087.3	1086.0
12.5°	1070.0	1068.6	1067.3	1075.3	1075.3
15°	1050.0	1051.3	1051.3	1062.0	1060.6
17.5°	1031.3	1032.6	1033.9	1047.3	1047.3
20°	1007.3	1008.6	1013.9	1028.6	1029.9
22.5°	981.9	983.2	989.9	1007.3	1009.9
25°	952.6	957.9	965.9	984.6	988.6
27.5°	923.2	927.2	940.6	961.9	964.6
30°	888.5	896.5	911.2	935.2	940.6
32.5°	853.8	863.2	880.5	907.2	913.9
35°	817.8	828.5	849.8	877.9	884.5
37.5°	780.5	789.8	816.5	845.8	855.2
40°	743.1	752.4	781.8	815.1	825.8
42.5°	703.1	716.4	745.8	783.1	793.8
45°	661.7	676.4	709.8	749.8	757.8
47.5°	619.0	635.0	673.7	713.8	723.1
50°	581.7	596.4	635.0	673.7	680.4
52.5°	541.7	555.0	597.7	629.7	631.0
55°	499.0	515.0	557.7	583.0	580.3
57.5°	460.3	473.6	515.0	528.3	520.3
60°	418.9	430.9	472.3	473.6	461.6
62.5°	378.9	390.9	422.9	413.6	398.9
65°	338.9	350.9	373.6	356.2	342.9
67.5°	300.2	310.8	324.2	301.5	288.2
70°	258.8	273.5	274.8	248.1	234.8
72.5°	222.8	230.8	228.1	202.8	190.8
75°	182.8	192.1	180.1	156.1	146.8
77.5°	145.4	152.1	136.1	113.4	106.7
80°	108.1	112.1	93.4	76.0	72.0
82.5°	73.4	73.4	53.4	41.4	37.4
85°	42.7	37.4	22.7	20.0	20.0
87.5°	14.7	9.3	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)