

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: P258789

Luminaire Tested: **14CZ-LD5-29-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258789
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3126.0 lumens
Efficiency: N/A
Efficacy: 137.2 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

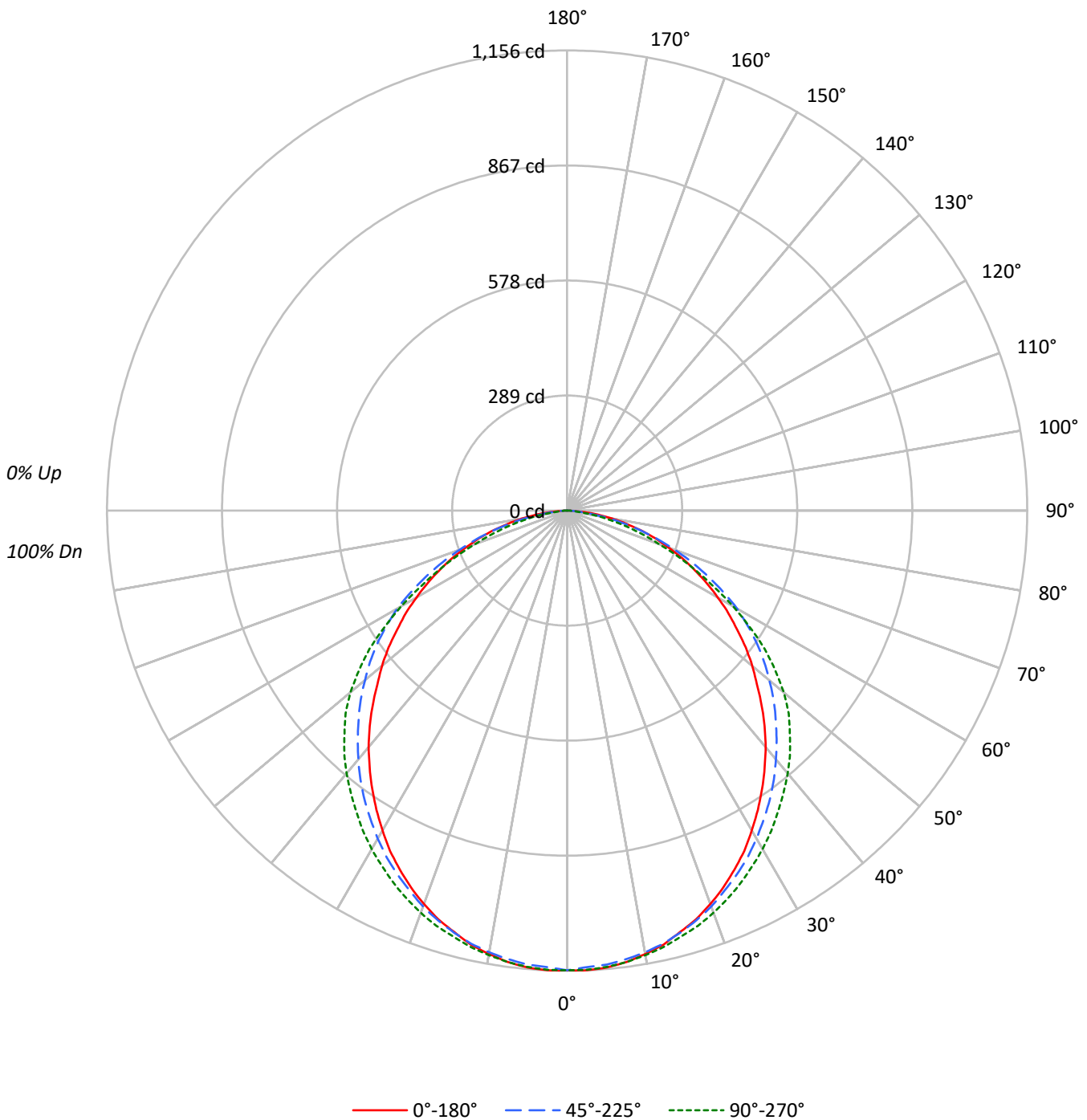
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3107	3107	3107
5°	3112	3093	3108
10°	3091	3079	3098
15°	3054	3058	3085
20°	3012	3031	3079
25°	2953	2994	3065
30°	2883	2956	3051
35°	2805	2915	3034
40°	2726	2868	3029
45°	2629	2820	3011
50°	2542	2776	2974
55°	2444	2731	2843
60°	2354	2654	2594
65°	2253	2483	2280
70°	2126	2257	1929
75°	1984	1955	1593
80°	1748	1511	1165
85°	1377	732	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	3.5
10°-20°	310.8	9.9
20°-30°	466.5	14.9
30°-40°	556.1	17.8
40°-50°	572.8	18.3
50°-60°	510.5	16.3
60°-70°	367.9	11.8
70°-80°	192.4	6.2
80°-90°	39.8	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°	886.5	28.4
0°-40°	1442.6	46.1
0°-60°	2526.0	80.8
0°-90°	3126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1152	1149	1145	1152	1151	109
15°	1096	1098	1098	1109	1107	309
25°	995	1000	1008	1028	1032	458
35°	854	865	887	917	924	534
45°	691	706	741	783	791	533
55°	521	538	582	609	606	467
65°	354	366	390	372	358	350
75°	191	201	188	163	153	202
85°	45	39	24	21	21	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.7	1154.7	1154.7	1154.7	1154.7
2.5°	1156.1	1153.4	1147.8	1154.7	1154.7
5°	1152.0	1149.2	1145.0	1152.0	1150.6
7.5°	1143.6	1140.8	1136.6	1145.0	1143.6
10°	1131.1	1129.7	1126.9	1135.2	1133.9
12.5°	1117.1	1115.7	1114.4	1122.7	1122.7
15°	1096.2	1097.6	1097.6	1108.8	1107.4
17.5°	1076.7	1078.1	1079.5	1093.5	1093.5
20°	1051.7	1053.1	1058.6	1074.0	1075.3
22.5°	1025.2	1026.6	1033.6	1051.7	1054.5
25°	994.6	1000.1	1008.5	1028.0	1032.2
27.5°	963.9	968.1	982.0	1004.3	1007.1
30°	927.7	936.1	951.4	976.4	982.0
32.5°	891.5	901.2	919.3	947.2	954.2
35°	853.9	865.0	887.3	916.6	923.5
37.5°	814.9	824.6	852.5	883.1	892.9
40°	775.9	785.6	816.3	851.1	862.2
42.5°	734.1	748.0	778.7	817.7	828.8
45°	690.9	706.2	741.0	782.8	791.2
47.5°	646.3	663.0	703.4	745.2	755.0
50°	607.3	622.6	663.0	703.4	710.4
52.5°	565.5	579.5	624.0	657.5	658.9
55°	521.0	537.7	582.2	608.7	605.9
57.5°	480.6	494.5	537.7	551.6	543.2
60°	437.4	449.9	493.1	494.5	482.0
62.5°	395.6	408.1	441.6	431.8	416.5
65°	353.8	366.3	390.0	371.9	358.0
67.5°	313.4	324.6	338.5	314.8	300.9
70°	270.2	285.6	286.9	259.1	245.2
72.5°	232.6	241.0	238.2	211.7	199.2
75°	190.8	200.6	188.0	163.0	153.2
77.5°	151.8	158.8	142.1	118.4	111.4
80°	112.8	117.0	97.5	79.4	75.2
82.5°	76.6	76.6	55.7	43.2	39.0
85°	44.6	39.0	23.7	20.9	20.9
87.5°	15.3	9.8	9.8	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)