

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: P258846

Luminaire Tested: **14CZ-LD5-35-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258846
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-LD5-35-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2938.0 lumens
Efficiency: N/A
Efficacy: 108.2 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

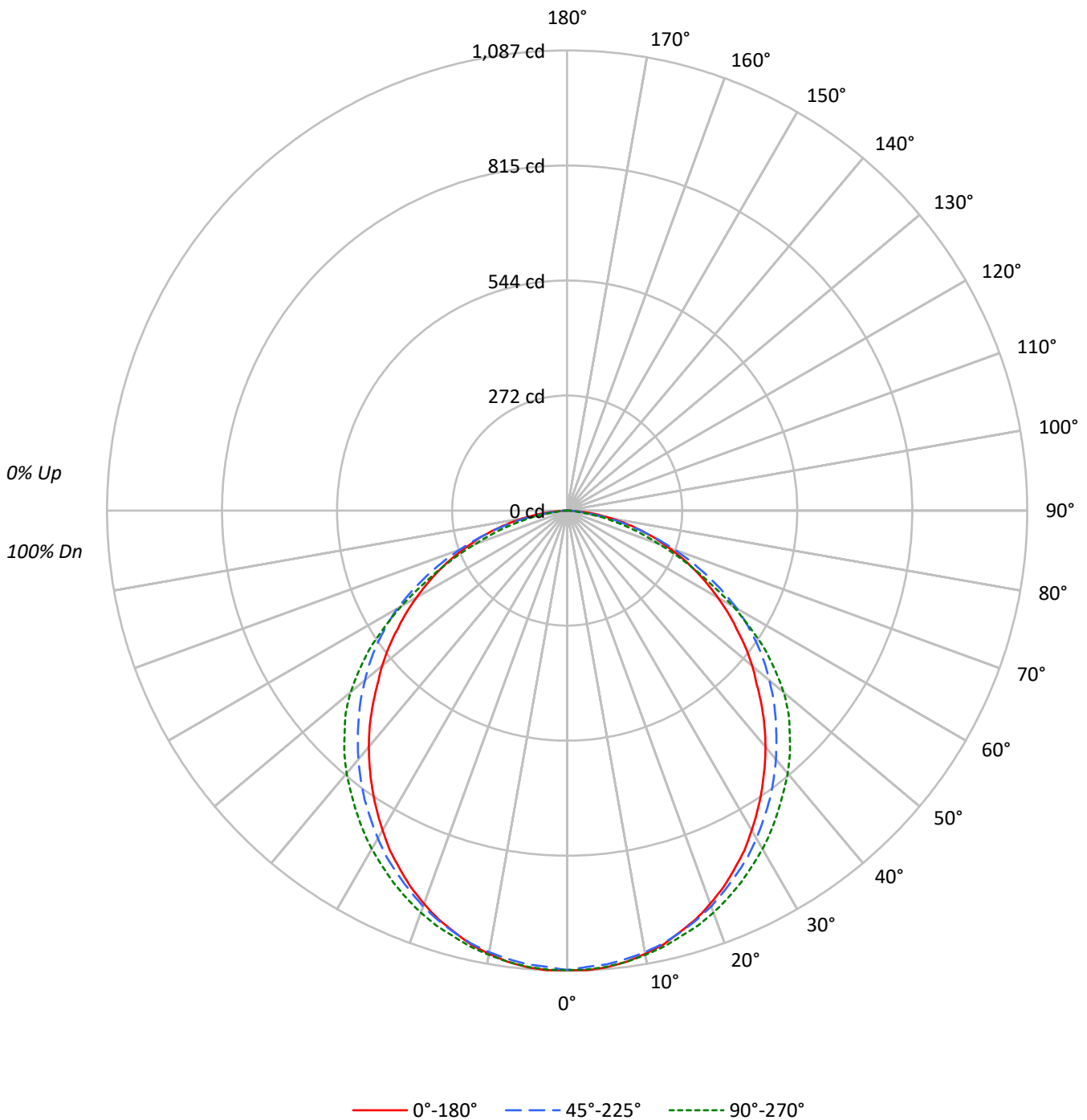
Input Watts (W): 27.156
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2921	2921	2921
5°	2925	2907	2921
10°	2905	2894	2912
15°	2870	2874	2900
20°	2830	2849	2894
25°	2775	2814	2880
30°	2709	2779	2868
35°	2636	2739	2851
40°	2562	2695	2847
45°	2471	2651	2830
50°	2390	2609	2795
55°	2297	2567	2672
60°	2213	2494	2438
65°	2117	2334	2143
70°	1998	2122	1813
75°	1865	1837	1497
80°	1643	1420	1096
85°	1294	689	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.5
10°-20°	292.2	9.9
20°-30°	438.4	14.9
30°-40°	522.7	17.8
40°-50°	538.4	18.3
50°-60°	479.8	16.3
60°-70°	345.7	11.8
70°-80°	180.8	6.2
80°-90°	37.4	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°	833.1	28.4
0°-40°	1355.8	46.1
0°-60°	2374.1	80.8
0°-90°	2938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1083	1080	1076	1083	1081	103
15°	1030	1032	1032	1042	1041	291
25°	935	940	948	966	970	431
35°	802	813	834	861	868	502
45°	649	664	696	736	744	501
55°	490	505	547	572	570	439
65°	332	344	367	350	336	329
75°	179	188	177	153	144	190
85°	42	37	22	20	20	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085.3	1085.3	1085.3	1085.3	1085.3
2.5°	1086.6	1084.0	1078.8	1085.3	1085.3
5°	1082.7	1080.1	1076.1	1082.7	1081.4
7.5°	1074.8	1072.2	1068.3	1076.1	1074.8
10°	1063.0	1061.7	1059.1	1067.0	1065.7
12.5°	1050.0	1048.6	1047.3	1055.2	1055.2
15°	1030.3	1031.6	1031.6	1042.1	1040.8
17.5°	1012.0	1013.3	1014.6	1027.7	1027.7
20°	988.4	989.7	995.0	1009.4	1010.7
22.5°	963.5	964.9	971.4	988.4	991.0
25°	934.7	940.0	947.8	966.2	970.1
27.5°	905.9	909.9	923.0	943.9	946.5
30°	871.9	879.8	894.2	917.7	923.0
32.5°	837.9	847.0	864.0	890.2	896.8
35°	802.5	813.0	833.9	861.4	868.0
37.5°	765.9	775.0	801.2	830.0	839.2
40°	729.2	738.4	767.2	799.9	810.4
42.5°	689.9	703.0	731.8	768.5	779.0
45°	649.3	663.7	696.5	735.8	743.6
47.5°	607.5	623.2	661.1	700.4	709.6
50°	570.8	585.2	623.2	661.1	667.7
52.5°	531.5	544.6	586.5	617.9	619.2
55°	489.6	505.3	547.2	572.1	569.5
57.5°	451.7	464.8	505.3	518.4	510.6
60°	411.1	422.9	463.4	464.8	453.0
62.5°	371.8	383.6	415.0	405.8	391.4
65°	332.5	344.3	366.6	349.5	336.5
67.5°	294.6	305.0	318.1	295.9	282.8
70°	254.0	268.4	269.7	243.5	230.4
72.5°	218.6	226.5	223.9	199.0	187.2
75°	179.4	188.5	176.7	153.2	144.0
77.5°	142.7	149.2	133.5	111.3	104.7
80°	106.0	110.0	91.6	74.6	70.7
82.5°	72.0	72.0	52.4	40.6	36.7
85°	41.9	36.7	22.3	19.6	19.6
87.5°	14.4	9.2	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)