

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: P258749

Luminaire Tested: **14CZ-LD5-35-S-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258749
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-L93050-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: 2805.0 lumens
Efficiency: N/A
Efficacy: 99.9 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

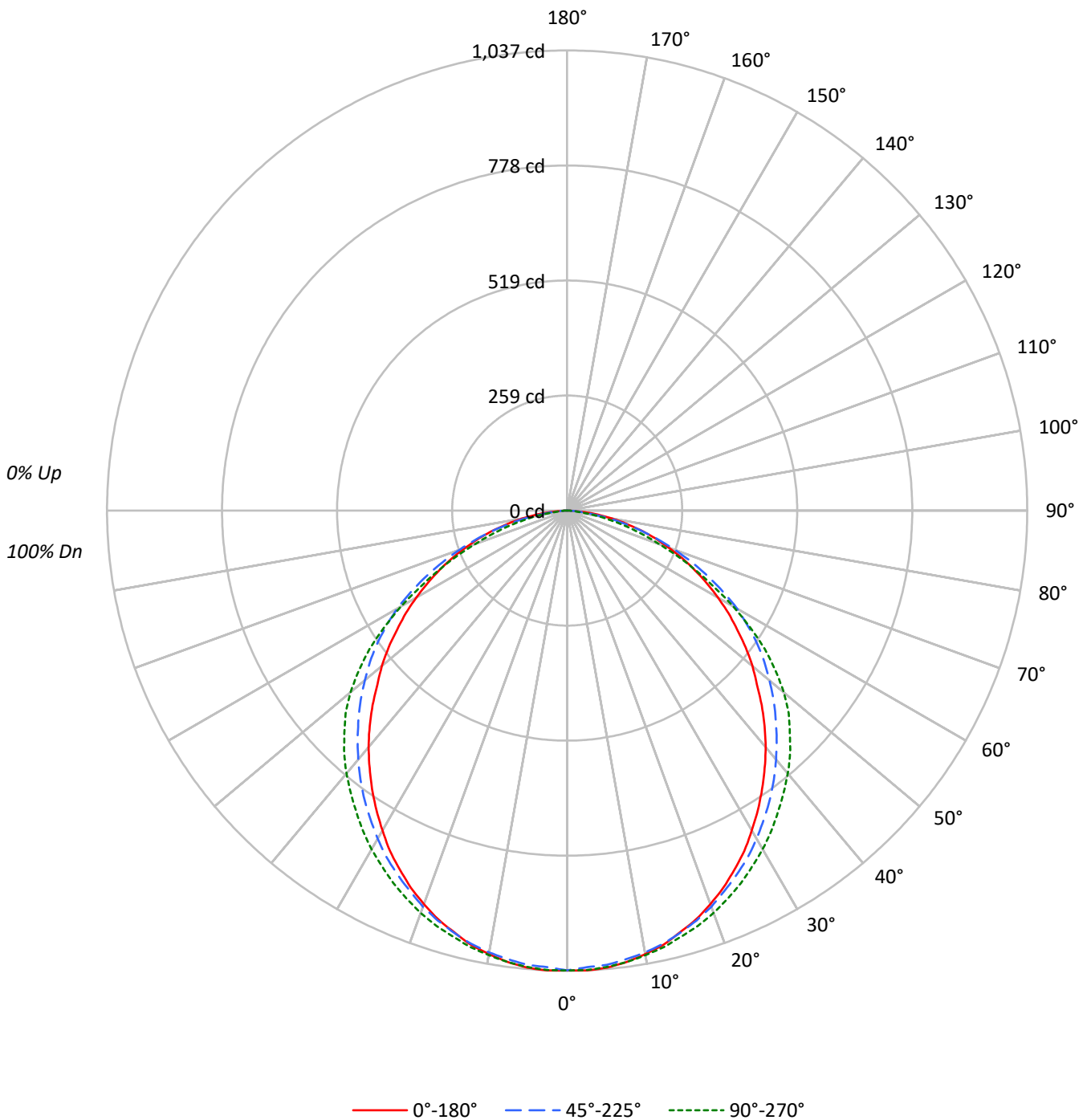
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2788	2788	2788
5°	2792	2775	2789
10°	2773	2763	2780
15°	2740	2744	2768
20°	2702	2720	2763
25°	2650	2687	2750
30°	2586	2653	2738
35°	2517	2616	2722
40°	2446	2573	2718
45°	2359	2530	2702
50°	2282	2491	2668
55°	2193	2451	2551
60°	2112	2382	2328
65°	2022	2229	2045
70°	1908	2026	1731
75°	1780	1754	1430
80°	1568	1356	1046
85°	1235	655	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.5
10°-20°	278.9	9.9
20°-30°	418.6	14.9
30°-40°	499.0	17.8
40°-50°	514.0	18.3
50°-60°	458.1	16.3
60°-70°	330.1	11.8
70°-80°	172.6	6.2
80°-90°	35.7	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°	795.4	28.4
0°-40°	1294.5	46.1
0°-60°	2266.6	80.8
0°-90°	2805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1034	1031	1027	1034	1032	98
15°	984	985	985	995	994	278
25°	892	897	905	922	926	411
35°	766	776	796	822	829	479
45°	620	634	665	702	710	478
55°	468	482	522	546	544	419
65°	318	329	350	334	321	315
75°	171	180	169	146	138	181
85°	40	35	21	19	19	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.2	1036.2	1036.2	1036.2	1036.2
2.5°	1037.4	1034.9	1029.9	1036.2	1036.2
5°	1033.7	1031.2	1027.4	1033.7	1032.4
7.5°	1026.2	1023.7	1019.9	1027.4	1026.2
10°	1014.9	1013.7	1011.2	1018.7	1017.4
12.5°	1002.4	1001.2	999.9	1007.4	1007.4
15°	983.7	984.9	984.9	994.9	993.7
17.5°	966.2	967.4	968.7	981.2	981.2
20°	943.7	944.9	949.9	963.7	964.9
22.5°	919.9	921.2	927.4	943.7	946.2
25°	892.4	897.4	904.9	922.4	926.2
27.5°	864.9	868.7	881.2	901.2	903.7
30°	832.4	839.9	853.7	876.2	881.2
32.5°	799.9	808.7	824.9	849.9	856.2
35°	766.2	776.2	796.2	822.4	828.7
37.5°	731.2	739.9	764.9	792.4	801.2
40°	696.2	704.9	732.4	763.7	773.7
42.5°	658.7	671.2	698.7	733.7	743.7
45°	620.0	633.7	664.9	702.4	709.9
47.5°	580.0	595.0	631.2	668.7	677.4
50°	545.0	558.7	595.0	631.2	637.4
52.5°	507.5	520.0	560.0	590.0	591.2
55°	467.5	482.5	522.5	546.2	543.7
57.5°	431.2	443.7	482.5	495.0	487.5
60°	392.5	403.7	442.5	443.7	432.5
62.5°	355.0	366.2	396.2	387.5	373.7
65°	317.5	328.7	350.0	333.7	321.2
67.5°	281.2	291.2	303.7	282.5	270.0
70°	242.5	256.2	257.5	232.5	220.0
72.5°	208.7	216.2	213.7	190.0	178.7
75°	171.2	180.0	168.7	146.2	137.5
77.5°	136.2	142.5	127.5	106.2	100.0
80°	101.2	105.0	87.5	71.2	67.5
82.5°	68.7	68.7	50.0	38.7	35.0
85°	40.0	35.0	21.2	18.7	18.7
87.5°	13.7	8.7	8.7	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)