

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: P258799

Luminaire Tested: **14CZ-LD5-35-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258799
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-L82765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3769.0 lumens
Efficiency: N/A
Efficacy: 131.6 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

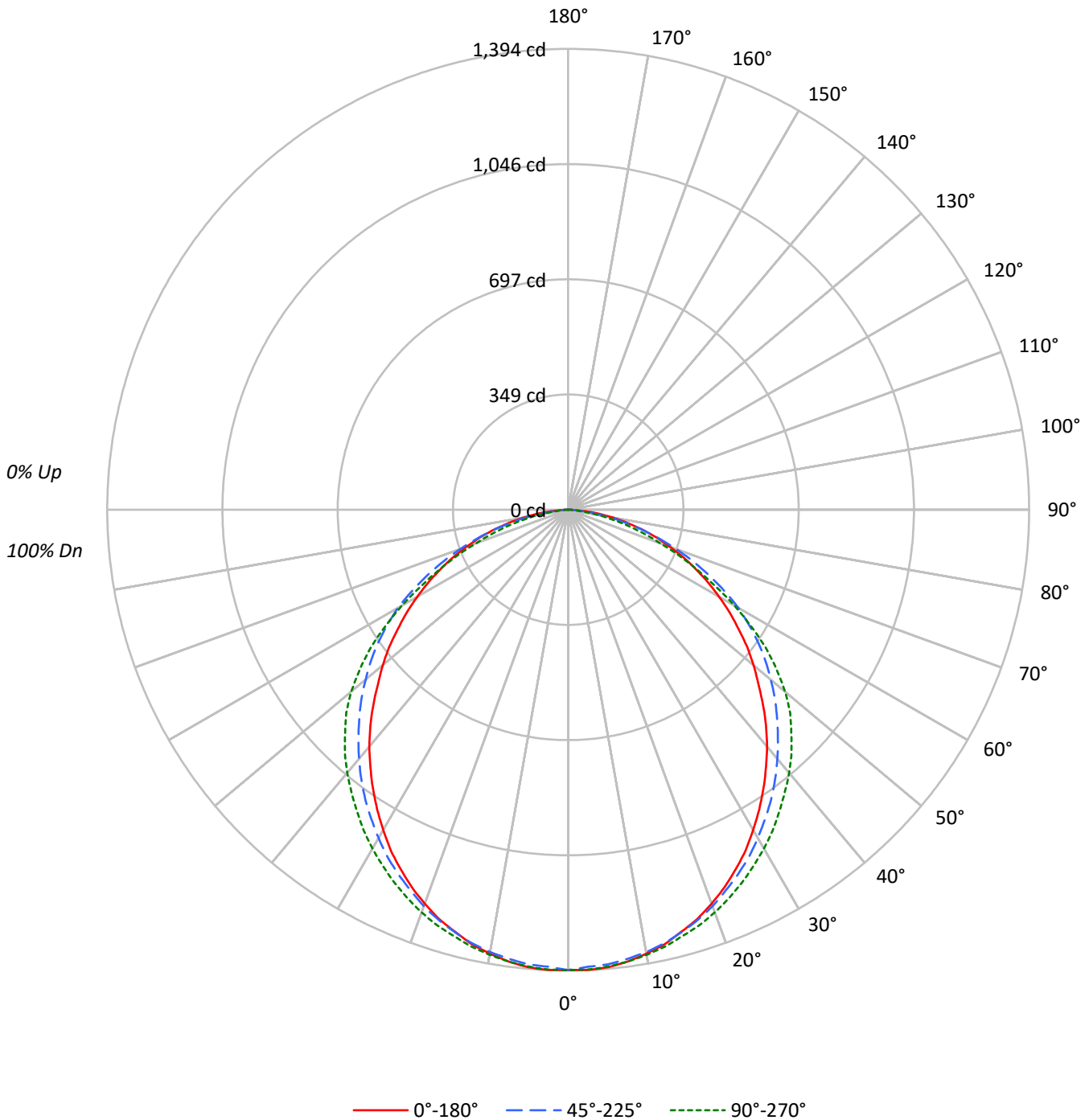
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3747	3747	3747
5°	3752	3729	3747
10°	3726	3713	3736
15°	3682	3687	3720
20°	3631	3655	3713
25°	3560	3610	3695
30°	3475	3564	3679
35°	3382	3514	3658
40°	3286	3457	3652
45°	3170	3400	3630
50°	3065	3347	3586
55°	2947	3293	3428
60°	2838	3200	3127
65°	2716	2994	2748
70°	2563	2722	2326
75°	2392	2357	1920
80°	2108	1822	1406
85°	1658	883	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	3.5
10°-20°	374.8	9.9
20°-30°	562.5	14.9
30°-40°	670.5	17.8
40°-50°	690.7	18.3
50°-60°	615.5	16.3
60°-70°	443.5	11.8
70°-80°	232.0	6.2
80°-90°	48.0	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°	1068.8	28.4
0°-40°	1739.3	46.1
0°-60°	3045.6	80.8
0°-90°	3769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1392	1392	1392	1392	1392	
5°	1389	1386	1380	1389	1387	132
15°	1322	1323	1323	1337	1335	373
25°	1199	1206	1216	1239	1244	552
35°	1030	1043	1070	1105	1114	644
45°	833	852	894	944	954	643
55°	628	648	702	734	731	563
65°	427	442	470	448	432	423
75°	230	242	227	196	185	244
85°	54	47	29	25	25	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.3	1392.3	1392.3	1392.3	1392.3
2.5°	1393.9	1390.6	1383.9	1392.3	1392.3
5°	1388.9	1385.6	1380.5	1388.9	1387.2
7.5°	1378.8	1375.5	1370.4	1380.5	1378.8
10°	1363.7	1362.0	1358.7	1368.8	1367.1
12.5°	1346.9	1345.2	1343.6	1353.6	1353.6
15°	1321.7	1323.4	1323.4	1336.8	1335.2
17.5°	1298.2	1299.9	1301.6	1318.4	1318.4
20°	1268.0	1269.7	1276.4	1294.9	1296.5
22.5°	1236.1	1237.8	1246.2	1268.0	1271.3
25°	1199.1	1205.9	1215.9	1239.4	1244.5
27.5°	1162.2	1167.2	1184.0	1210.9	1214.2
30°	1118.5	1128.6	1147.1	1177.3	1184.0
32.5°	1074.9	1086.6	1108.4	1142.0	1150.4
35°	1029.5	1042.9	1069.8	1105.1	1113.5
37.5°	982.5	994.2	1027.8	1064.8	1076.5
40°	935.5	947.2	984.2	1026.1	1039.6
42.5°	885.1	901.9	938.8	985.8	999.3
45°	833.0	851.5	893.5	943.9	953.9
47.5°	779.3	799.4	848.1	898.5	910.3
50°	732.2	750.7	799.4	848.1	856.5
52.5°	681.9	698.7	752.4	792.7	794.4
55°	628.1	648.3	702.0	733.9	730.6
57.5°	579.4	596.2	648.3	665.1	655.0
60°	527.3	542.5	594.5	596.2	581.1
62.5°	477.0	492.1	532.4	520.6	502.2
65°	426.6	441.7	470.2	448.4	431.6
67.5°	377.9	391.3	408.1	379.6	362.8
70°	325.8	344.3	346.0	312.4	295.6
72.5°	280.5	290.5	287.2	255.3	240.2
75°	230.1	241.8	226.7	196.5	184.7
77.5°	183.1	191.5	171.3	142.8	134.4
80°	136.0	141.1	117.6	95.7	90.7
82.5°	92.4	92.4	67.2	52.1	47.0
85°	53.7	47.0	28.6	25.2	25.2
87.5°	18.5	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)