

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: P259466

Luminaire Tested: **22CZ-LD5-34-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25712)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-S-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x2 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: 3499.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

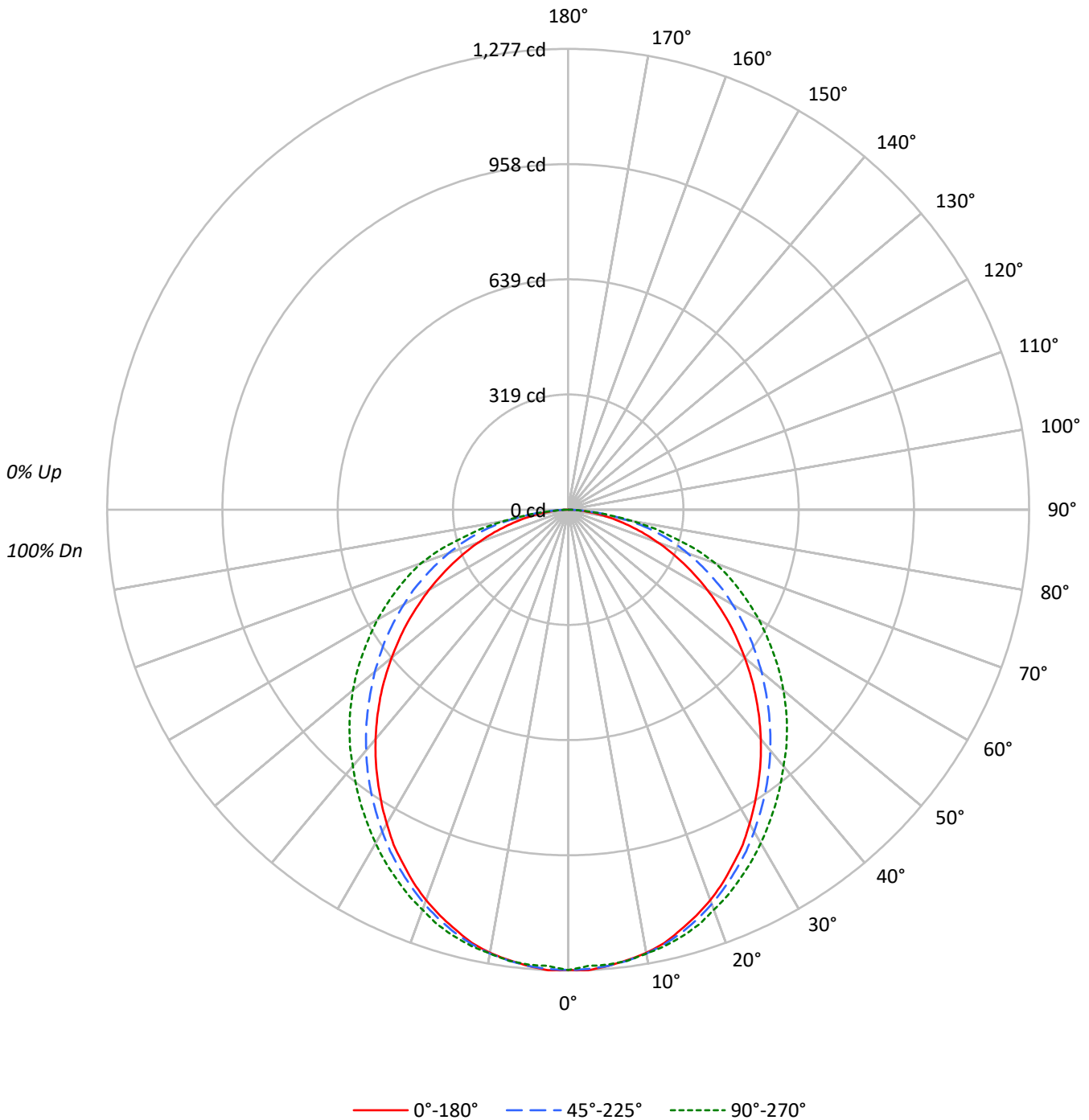
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3433	3433	3433
5°	3428	3428	3418
10°	3407	3412	3412
15°	3357	3380	3409
20°	3297	3330	3379
25°	3214	3268	3348
30°	3123	3201	3316
35°	3020	3130	3285
40°	2916	3058	3259
45°	2801	2987	3262
50°	2673	2927	3257
55°	2547	2878	3256
60°	2397	2831	3284
65°	2247	2793	3328
70°	2076	2764	3412
75°	1869	2744	3163
80°	1641	2552	2760
85°	1349	1920	1714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	3.4
10°-20°	342.2	9.8
20°-30°	508.2	14.5
30°-40°	598.2	17.1
40°-50°	609.9	17.4
50°-60°	550.1	15.7
60°-70°	433.3	12.4
70°-80°	267.3	7.6
80°-90°	69.4	2.0
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°	970.9	27.7
0°-40°	1569.1	44.8
0°-60°	2729.1	78.0
0°-90°	3499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1269	1271	1269	1267	1266	120
15°	1205	1210	1213	1220	1224	340
25°	1082	1089	1101	1119	1128	499
35°	919	929	953	983	1000	575
45°	736	748	785	832	857	567
55°	543	561	613	669	694	484
65°	353	378	439	494	523	350
75°	180	210	264	294	304	192
85°	44	56	62	59	56	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1275.6	1275.6	1275.6	1275.6	1275.6
2.5°	1277.3	1277.3	1273.9	1270.6	1265.5
5°	1268.9	1270.6	1268.9	1267.2	1265.5
7.5°	1258.8	1260.5	1260.5	1260.5	1260.5
10°	1247.0	1248.7	1248.7	1248.7	1248.7
12.5°	1230.2	1231.9	1233.6	1235.3	1238.6
15°	1205.0	1210.0	1213.4	1220.1	1223.5
17.5°	1179.8	1184.8	1189.9	1198.3	1205.0
20°	1151.2	1154.6	1163.0	1173.1	1179.8
22.5°	1119.3	1124.3	1132.7	1146.2	1156.3
25°	1082.3	1089.0	1100.8	1119.3	1127.7
27.5°	1047.0	1052.1	1067.2	1087.4	1099.1
30°	1005.0	1011.7	1030.2	1055.4	1067.2
32.5°	963.0	971.4	991.6	1020.1	1033.6
35°	919.3	929.4	952.9	983.2	1000.0
37.5°	875.6	885.7	912.6	946.2	964.7
40°	830.2	840.3	870.6	907.5	927.7
42.5°	783.2	794.9	828.5	870.6	894.1
45°	736.1	747.9	784.9	831.9	857.1
47.5°	687.4	700.8	741.2	793.3	818.5
50°	638.6	653.8	699.1	752.9	778.1
52.5°	589.9	606.7	655.4	710.9	737.8
55°	542.8	561.3	613.4	668.9	694.1
57.5°	492.4	514.3	569.7	623.5	652.1
60°	445.4	468.9	526.0	579.8	610.1
62.5°	398.3	423.5	484.0	537.8	566.4
65°	352.9	378.1	438.6	494.1	522.7
67.5°	307.6	336.1	394.9	450.4	479.0
70°	263.9	294.1	351.3	405.0	433.6
72.5°	221.8	252.1	309.2	359.7	376.5
75°	179.8	210.1	263.9	294.1	304.2
77.5°	141.2	169.7	216.8	235.3	248.7
80°	105.9	131.1	164.7	176.5	178.1
82.5°	72.3	94.1	114.3	116.0	114.3
85°	43.7	55.5	62.2	58.8	55.5
87.5°	20.2	21.8	20.2	13.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)