

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: P259391

Luminaire Tested: **22CZ-LD5-34-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259391
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-L83050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3312.0 lumens
Efficiency: N/A
Efficacy: 129.5 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

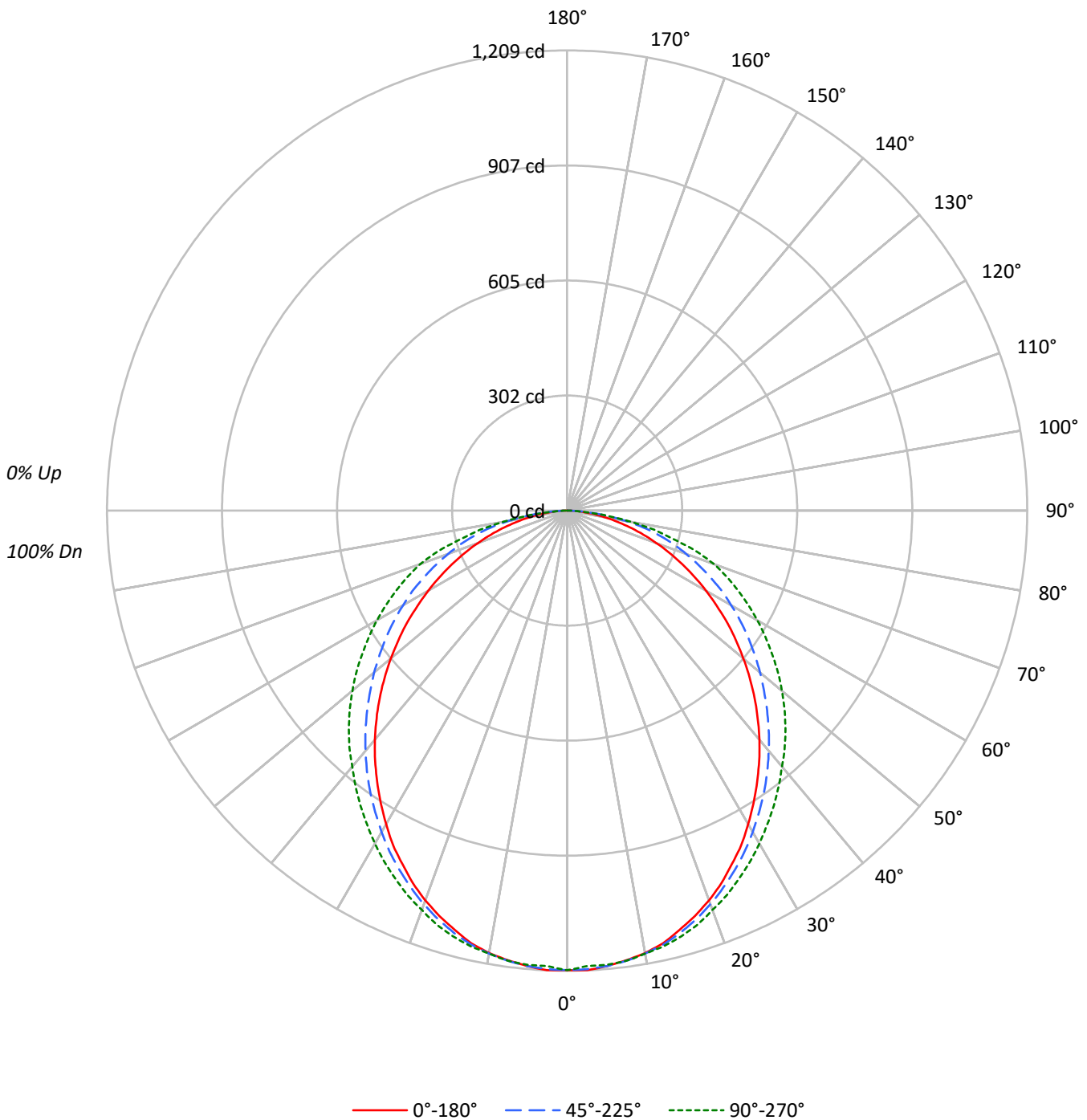
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3249	3249	3249
5°	3244	3244	3236
10°	3225	3230	3230
15°	3178	3200	3226
20°	3121	3152	3198
25°	3042	3094	3169
30°	2956	3030	3139
35°	2859	2963	3109
40°	2761	2895	3085
45°	2652	2827	3087
50°	2531	2771	3083
55°	2411	2724	3082
60°	2269	2680	3108
65°	2127	2644	3150
70°	1965	2616	3229
75°	1770	2597	2993
80°	1553	2416	2613
85°	1278	1819	1621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	3.4
10°-20°	323.9	9.8
20°-30°	481.1	14.5
30°-40°	566.3	17.1
40°-50°	577.3	17.4
50°-60°	520.7	15.7
60°-70°	410.1	12.4
70°-80°	253.0	7.6
80°-90°	65.7	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°	919.0	27.7
0°-40°	1485.3	44.8
0°-60°	2583.2	78.0
0°-90°	3312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1201	1203	1201	1200	1198	114
15°	1141	1145	1149	1155	1158	322
25°	1024	1031	1042	1060	1067	472
35°	870	880	902	931	946	544
45°	697	708	743	787	811	537
55°	514	531	581	633	657	459
65°	334	358	415	468	495	331
75°	170	199	250	278	288	182
85°	41	52	59	56	52	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.4	1207.4	1207.4	1207.4	1207.4
2.5°	1209.0	1209.0	1205.8	1202.6	1197.9
5°	1201.1	1202.6	1201.1	1199.5	1197.9
7.5°	1191.5	1193.1	1193.1	1193.1	1193.1
10°	1180.4	1182.0	1182.0	1182.0	1182.0
12.5°	1164.5	1166.1	1167.6	1169.2	1172.4
15°	1140.6	1145.4	1148.6	1154.9	1158.1
17.5°	1116.7	1121.5	1126.3	1134.2	1140.6
20°	1089.7	1092.9	1100.8	1110.4	1116.7
22.5°	1059.5	1064.2	1072.2	1084.9	1094.5
25°	1024.5	1030.8	1042.0	1059.5	1067.4
27.5°	991.1	995.8	1010.2	1029.2	1040.4
30°	951.3	957.7	975.2	999.0	1010.2
32.5°	911.5	919.5	938.6	965.6	978.3
35°	870.2	879.7	902.0	930.6	946.5
37.5°	828.8	838.4	863.8	895.6	913.1
40°	785.9	795.4	824.0	859.0	878.1
42.5°	741.3	752.5	784.3	824.0	846.3
45°	696.8	707.9	742.9	787.4	811.3
47.5°	650.6	663.4	701.5	750.9	774.7
50°	604.5	618.8	661.8	712.7	736.5
52.5°	558.4	574.3	620.4	672.9	698.4
55°	513.8	531.3	580.6	633.1	657.0
57.5°	466.1	486.8	539.3	590.2	617.2
60°	421.6	443.8	497.9	548.8	577.5
62.5°	377.0	400.9	458.2	509.1	536.1
65°	334.1	357.9	415.2	467.7	494.7
67.5°	291.1	318.2	373.8	426.3	453.4
70°	249.8	278.4	332.5	383.4	410.4
72.5°	210.0	238.6	292.7	340.4	356.3
75°	170.2	198.9	249.8	278.4	287.9
77.5°	133.6	160.7	205.2	222.7	235.4
80°	100.2	124.1	155.9	167.0	168.6
82.5°	68.4	89.1	108.2	109.8	108.2
85°	41.4	52.5	58.9	55.7	52.5
87.5°	19.1	20.7	19.1	12.7	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)