

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: P260493

Luminaire Tested: **22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-44-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3308.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

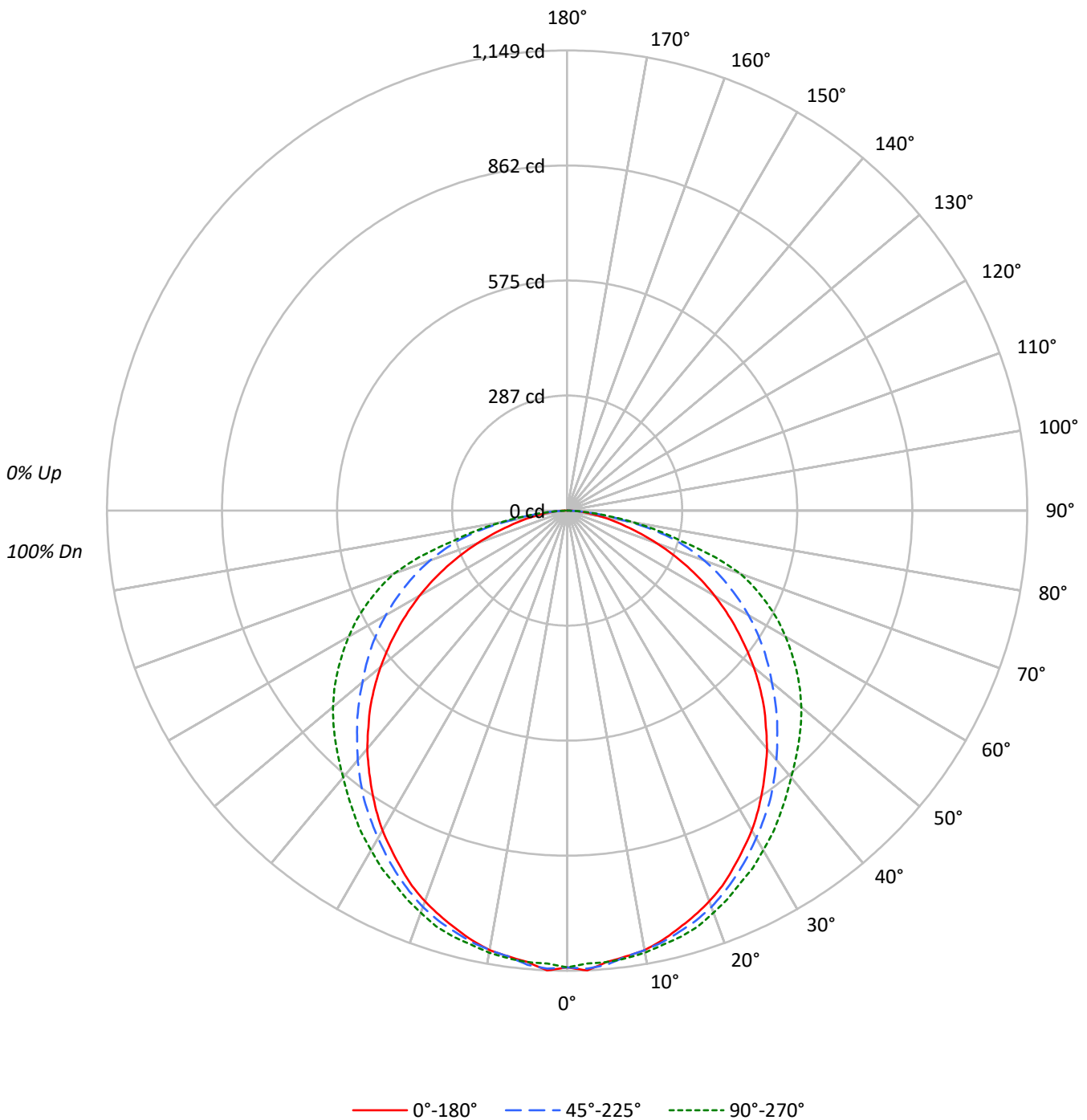
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3069	3069	3069
5°	3057	3075	3057
10°	3045	3045	3063
15°	3007	3031	3068
20°	2972	3016	3060
25°	2920	2978	3043
30°	2866	2934	3042
35°	2794	2901	3045
40°	2727	2857	3057
45°	2647	2821	3112
50°	2547	2794	3195
55°	2425	2803	3284
60°	2288	2817	3392
65°	2111	2833	3513
70°	1870	2865	3620
75°	1587	2857	3084
80°	1317	2298	2568
85°	1145	1550	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.3
10°-20°	307.3	9.3
20°-30°	462.4	14.0
30°-40°	554.1	16.8
40°-50°	577.9	17.5
50°-60°	538.0	16.3
60°-70°	436.9	13.2
70°-80°	263.3	8.0
80°-90°	60.4	1.8
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°	877.5	26.5
0°-40°	1431.6	43.3
0°-60°	2547.5	77.0
0°-90°	3308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1132	1132	1138	1140	1132	108
15°	1079	1084	1088	1095	1101	305
25°	984	990	1003	1016	1025	453
35°	850	861	883	909	927	532
45°	696	709	741	789	818	535
55°	517	539	598	663	700	462
65°	332	366	445	515	552	328
75°	153	203	275	292	297	165
85°	37	46	50	48	48	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.5	1140.5	1140.5	1140.5	1140.5
2.5°	1149.2	1147.0	1144.8	1138.3	1131.8
5°	1131.8	1131.8	1138.3	1140.5	1131.8
7.5°	1123.0	1123.0	1123.0	1131.8	1127.4
10°	1114.3	1114.3	1114.3	1120.8	1120.8
12.5°	1099.0	1101.2	1103.4	1105.6	1109.9
15°	1079.4	1083.8	1088.1	1094.7	1101.2
17.5°	1059.8	1064.2	1072.9	1079.4	1088.1
20°	1038.0	1042.3	1053.2	1059.8	1068.5
22.5°	1014.0	1016.2	1029.3	1038.0	1048.9
25°	983.5	990.0	1003.1	1016.2	1024.9
27.5°	952.9	959.5	974.7	992.2	1005.3
30°	922.4	929.0	944.2	966.0	979.1
32.5°	887.5	896.2	913.7	939.9	955.1
35°	850.4	861.4	883.2	909.3	926.8
37.5°	813.4	824.3	848.3	881.0	898.4
40°	776.3	787.2	813.4	848.3	870.1
42.5°	734.9	748.0	776.3	817.7	843.9
45°	695.6	708.7	741.4	789.4	817.7
47.5°	652.0	667.3	704.3	758.9	791.6
50°	608.4	625.8	667.3	728.3	763.2
52.5°	562.6	582.2	632.4	695.6	732.7
55°	516.8	538.6	597.5	662.9	700.0
57.5°	471.0	495.0	560.4	628.0	665.1
60°	425.2	451.4	523.4	593.1	630.2
62.5°	379.4	407.8	484.1	553.9	593.1
65°	331.5	366.3	444.9	514.6	551.7
67.5°	283.5	324.9	405.6	473.2	508.1
70°	237.7	283.5	364.2	427.4	460.1
72.5°	194.1	242.1	320.6	375.1	388.2
75°	152.6	202.8	274.8	292.2	296.6
77.5°	117.8	163.5	218.1	222.4	233.3
80°	85.0	124.3	148.3	161.4	165.7
82.5°	58.9	85.0	98.1	100.3	102.5
85°	37.1	45.8	50.2	48.0	48.0
87.5°	19.6	17.4	15.3	10.9	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)