

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: P259299

Luminaire Tested: **22CZ-LD5-34-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-34-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3490.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

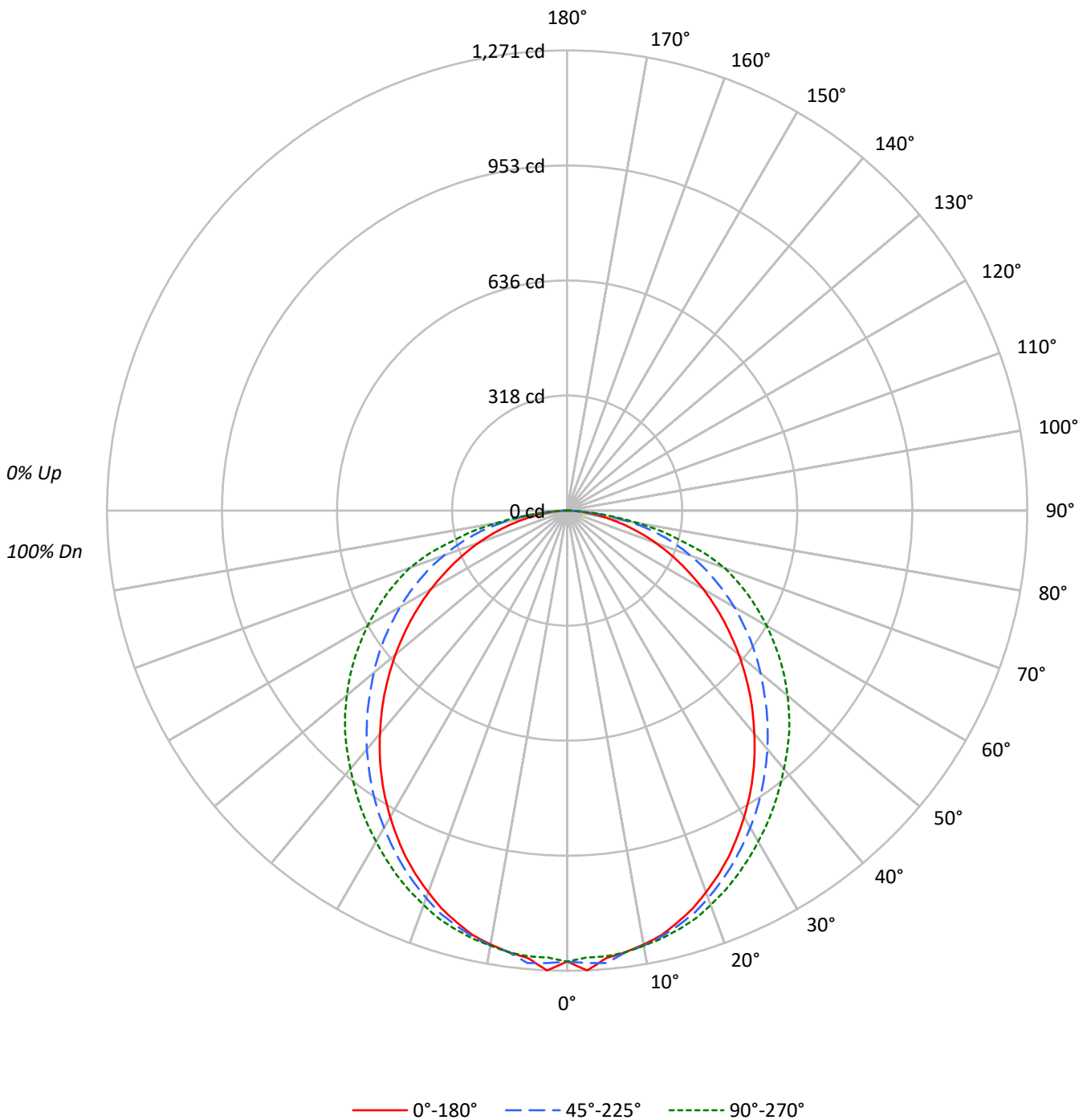
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3352	3352	3352
5°	3351	3388	3337
10°	3325	3334	3334
15°	3281	3305	3333
20°	3212	3261	3319
25°	3134	3205	3301
30°	3038	3143	3280
35°	2938	3083	3273
40°	2826	3022	3273
45°	2713	2965	3300
50°	2593	2920	3325
55°	2468	2890	3368
60°	2338	2868	3425
65°	2194	2853	3512
70°	2043	2844	3632
75°	1853	2840	3440
80°	1604	2630	3051
85°	1362	1991	1939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.4
10°-20°	334.7	9.6
20°-30°	497.8	14.3
30°-40°	588.8	16.9
40°-50°	605.2	17.3
50°-60°	553.0	15.8
60°-70°	442.4	12.7
70°-80°	277.6	8.0
80°-90°	72.3	2.1
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°	950.7	27.2
0°-40°	1539.5	44.1
0°-60°	2697.7	77.3
0°-90°	3490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1241	1241	1254	1246	1236	118
15°	1178	1180	1186	1193	1196	332
25°	1056	1062	1079	1098	1112	485
35°	894	906	938	974	996	559
45°	713	732	779	837	867	550
55°	526	552	616	684	718	471
65°	344	375	448	516	552	342
75°	178	212	273	314	331	189
85°	44	56	64	63	63	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1245.7	1245.7	1245.7	1245.7	1245.7
2.5°	1271.2	1266.1	1250.8	1240.6	1235.5
5°	1240.6	1240.6	1254.2	1245.7	1235.5
7.5°	1230.4	1230.4	1230.4	1255.9	1230.4
10°	1216.8	1218.5	1220.2	1230.4	1220.2
12.5°	1201.6	1201.6	1205.0	1208.4	1210.1
15°	1177.8	1179.5	1186.3	1193.1	1196.5
17.5°	1152.4	1157.4	1165.9	1174.4	1181.2
20°	1121.8	1128.6	1138.8	1152.4	1159.1
22.5°	1089.6	1096.4	1109.9	1125.2	1137.1
25°	1055.6	1062.4	1079.4	1098.0	1111.6
27.5°	1016.6	1025.1	1045.4	1070.9	1084.5
30°	977.6	987.7	1011.5	1040.3	1055.6
32.5°	936.8	948.7	975.9	1008.1	1026.8
35°	894.4	906.3	938.5	974.2	996.2
37.5°	850.3	863.8	899.5	940.2	964.0
40°	804.4	819.7	860.4	904.6	931.7
42.5°	758.6	775.6	819.7	872.3	899.5
45°	712.8	731.5	779.0	836.7	867.2
47.5°	665.3	687.3	736.6	801.0	831.6
50°	619.5	641.5	697.5	763.7	794.3
52.5°	571.9	597.4	656.8	724.7	756.9
55°	526.1	551.6	616.1	683.9	717.9
57.5°	480.3	505.7	573.6	643.2	677.2
60°	434.5	461.6	532.9	600.8	636.4
62.5°	388.6	417.5	490.5	560.1	594.0
65°	344.5	375.1	448.0	515.9	551.6
67.5°	302.1	334.3	405.6	471.8	507.4
70°	259.7	291.9	361.5	426.0	461.6
72.5°	218.9	251.2	319.1	376.8	403.9
75°	178.2	212.1	273.2	314.0	330.9
77.5°	139.2	173.1	225.7	252.9	271.5
80°	103.5	132.4	169.7	190.1	196.9
82.5°	71.3	95.0	118.8	123.9	127.3
85°	44.1	56.0	64.5	62.8	62.8
87.5°	20.4	22.1	18.7	13.6	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)