

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: P259277

Luminaire Tested: **22CZ-LD5-24-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259277
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-LD5-24-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2236.0 lumens
Efficiency: N/A
Efficacy: 127.2 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

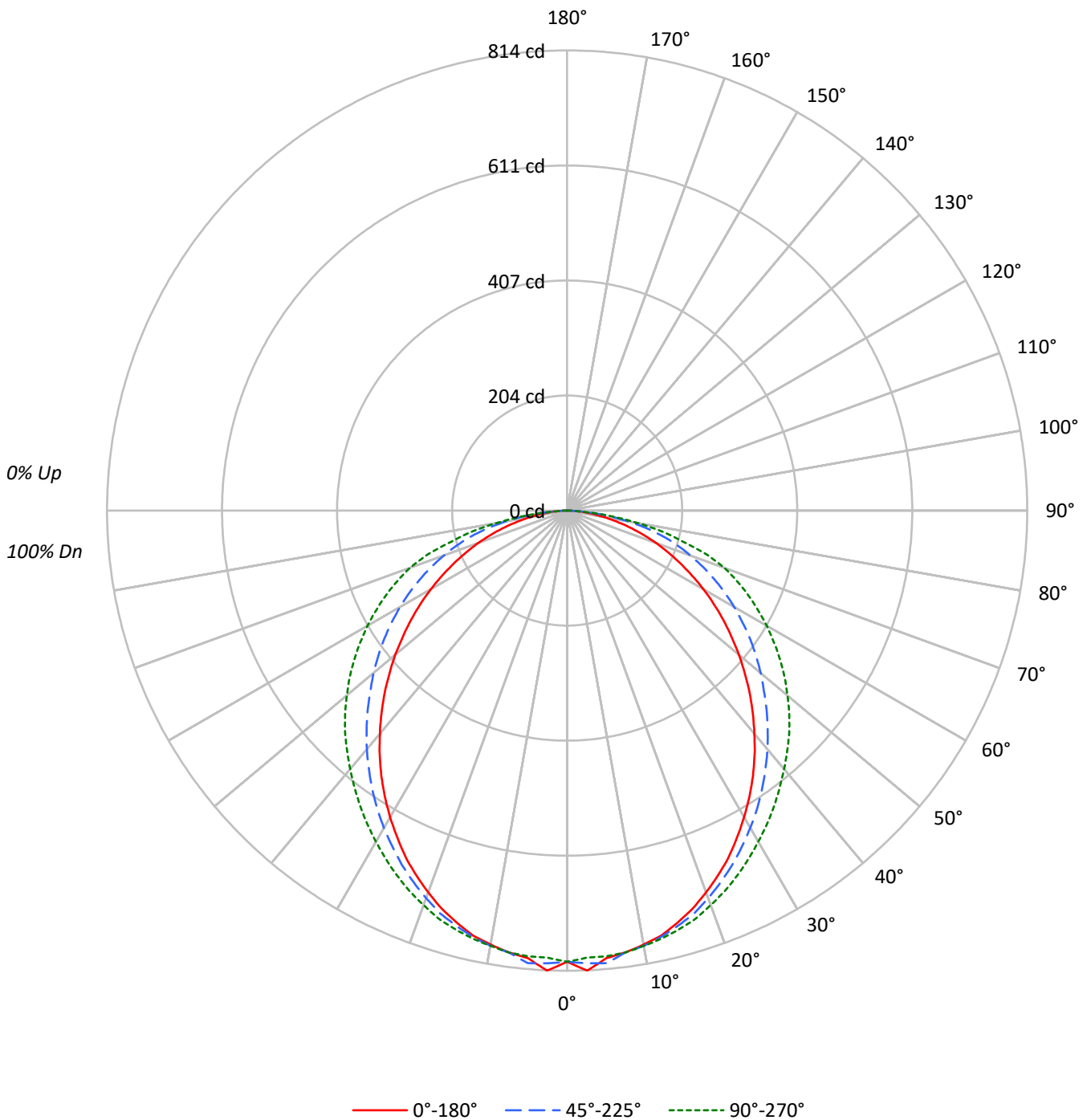
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2148	2148	2148
5°	2147	2170	2138
10°	2130	2136	2136
15°	2102	2117	2136
20°	2058	2089	2127
25°	2008	2053	2115
30°	1946	2014	2101
35°	1882	1975	2097
40°	1811	1937	2097
45°	1738	1899	2114
50°	1662	1871	2130
55°	1582	1852	2158
60°	1498	1837	2195
65°	1405	1828	2250
70°	1309	1822	2327
75°	1187	1821	2204
80°	1027	1684	1954
85°	874	1275	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.4
10°-20°	214.4	9.6
20°-30°	319.0	14.3
30°-40°	377.2	16.9
40°-50°	387.7	17.3
50°-60°	354.3	15.8
60°-70°	283.4	12.7
70°-80°	177.9	8.0
80°-90°	46.3	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°	609.1	27.2
0°-40°	986.3	44.1
0°-60°	1728.4	77.3
0°-90°	2236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	795	795	804	798	792	76
15°	755	756	760	764	767	213
25°	676	681	692	704	712	311
35°	573	581	601	624	638	358
45°	457	469	499	536	556	352
55°	337	353	395	438	460	302
65°	221	240	287	330	353	219
75°	114	136	175	201	212	121
85°	28	36	41	40	40	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.1	798.1	798.1	798.1	798.1
2.5°	814.4	811.2	801.4	794.8	791.6
5°	794.8	794.8	803.5	798.1	791.6
7.5°	788.3	788.3	788.3	804.6	788.3
10°	779.6	780.7	781.8	788.3	781.8
12.5°	769.8	769.8	772.0	774.2	775.3
15°	754.6	755.7	760.0	764.4	766.6
17.5°	738.3	741.6	747.0	752.4	756.8
20°	718.7	723.1	729.6	738.3	742.6
22.5°	698.1	702.4	711.1	720.9	728.5
25°	676.3	680.7	691.5	703.5	712.2
27.5°	651.3	656.8	669.8	686.1	694.8
30°	626.3	632.8	648.1	666.5	676.3
32.5°	600.2	607.8	625.2	645.9	657.8
35°	573.0	580.6	601.3	624.1	638.3
37.5°	544.8	553.5	576.3	602.4	617.6
40°	515.4	525.2	551.3	579.5	596.9
42.5°	486.0	496.9	525.2	558.9	576.3
45°	456.7	468.6	499.1	536.1	555.6
47.5°	426.2	440.4	471.9	513.2	532.8
50°	396.9	411.0	446.9	489.3	508.9
52.5°	366.4	382.7	420.8	464.3	485.0
55°	337.1	353.4	394.7	438.2	459.9
57.5°	307.7	324.0	367.5	412.1	433.8
60°	278.4	295.8	341.4	384.9	407.8
62.5°	249.0	267.5	314.2	358.8	380.6
65°	220.7	240.3	287.1	330.5	353.4
67.5°	193.5	214.2	259.9	302.3	325.1
70°	166.4	187.0	231.6	272.9	295.8
72.5°	140.3	160.9	204.4	241.4	258.8
75°	114.2	135.9	175.1	201.2	212.0
77.5°	89.2	110.9	144.6	162.0	174.0
80°	66.3	84.8	108.7	121.8	126.1
82.5°	45.7	60.9	76.1	79.4	81.6
85°	28.3	35.9	41.3	40.2	40.2
87.5°	13.0	14.1	12.0	8.7	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)