

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: P259445

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259445
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-LD5-24-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2281.0 lumens
Efficiency: N/A
Efficacy: 129.8 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

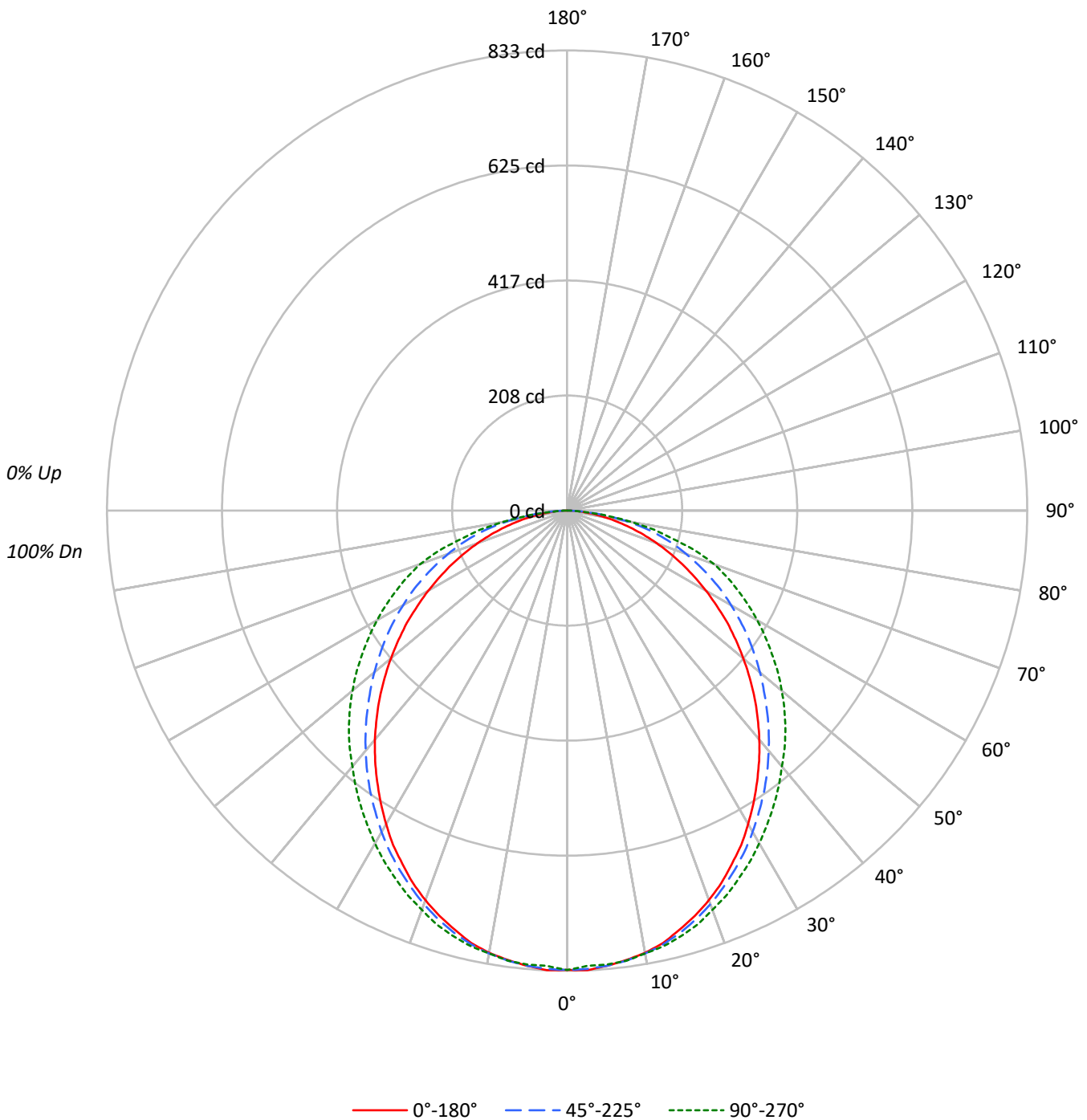
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2238	2238	2238
5°	2234	2234	2229
10°	2221	2224	2224
15°	2188	2204	2222
20°	2149	2171	2202
25°	2095	2131	2183
30°	2036	2087	2162
35°	1969	2041	2142
40°	1901	1994	2125
45°	1826	1947	2127
50°	1743	1908	2124
55°	1660	1876	2123
60°	1562	1845	2140
65°	1465	1821	2169
70°	1353	1802	2224
75°	1219	1788	2062
80°	1069	1664	1799
85°	880	1250	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	3.4
10°-20°	223.1	9.8
20°-30°	331.3	14.5
30°-40°	390.0	17.1
40°-50°	397.6	17.4
50°-60°	358.6	15.7
60°-70°	282.5	12.4
70°-80°	174.2	7.6
80°-90°	45.2	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°	632.9	27.7
0°-40°	1022.9	44.8
0°-60°	1779.1	78.0
0°-90°	2281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	832	832	832	832	832	
5°	827	828	827	826	825	79
15°	786	789	791	795	798	221
25°	706	710	718	730	735	325
35°	599	606	621	641	652	375
45°	480	488	512	542	559	370
55°	354	366	400	436	452	316
65°	230	246	286	322	341	228
75°	117	137	172	192	198	125
85°	28	36	40	38	36	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831.6	831.6	831.6	831.6	831.6
2.5°	832.7	832.7	830.5	828.3	825.0
5°	827.2	828.3	827.2	826.1	825.0
7.5°	820.6	821.7	821.7	821.7	821.7
10°	812.9	814.0	814.0	814.0	814.0
12.5°	802.0	803.1	804.2	805.3	807.5
15°	785.5	788.8	791.0	795.4	797.6
17.5°	769.1	772.4	775.7	781.2	785.5
20°	750.5	752.7	758.2	764.7	769.1
22.5°	729.7	733.0	738.4	747.2	753.8
25°	705.6	709.9	717.6	729.7	735.1
27.5°	682.6	685.8	695.7	708.9	716.5
30°	655.2	659.6	671.6	688.0	695.7
32.5°	627.8	633.3	646.4	665.0	673.8
35°	599.3	605.9	621.2	640.9	651.9
37.5°	570.8	577.4	594.9	616.8	628.9
40°	541.2	547.8	567.5	591.6	604.8
42.5°	510.5	518.2	540.1	567.5	582.9
45°	479.9	487.5	511.6	542.3	558.8
47.5°	448.1	456.9	483.2	517.1	533.6
50°	416.3	426.2	455.8	490.8	507.3
52.5°	384.6	395.5	427.3	463.4	481.0
55°	353.9	365.9	399.9	436.0	452.5
57.5°	321.0	335.3	371.4	406.5	425.1
60°	290.3	305.7	342.9	378.0	397.7
62.5°	259.7	276.1	315.5	350.6	369.2
65°	230.1	246.5	286.0	322.1	340.7
67.5°	200.5	219.1	257.5	293.6	312.2
70°	172.0	191.7	229.0	264.0	282.7
72.5°	144.6	164.3	201.6	234.5	245.4
75°	117.2	136.9	172.0	191.7	198.3
77.5°	92.0	110.7	141.3	153.4	162.1
80°	69.0	85.5	107.4	115.0	116.1
82.5°	47.1	61.4	74.5	75.6	74.5
85°	28.5	36.2	40.5	38.3	36.2
87.5°	13.1	14.2	13.1	8.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)