

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: P259508

Luminaire Tested: **22CZ-LD5-29-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259508
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-LD5-29-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2278.0 lumens
Efficiency: N/A
Efficacy: 109.8 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

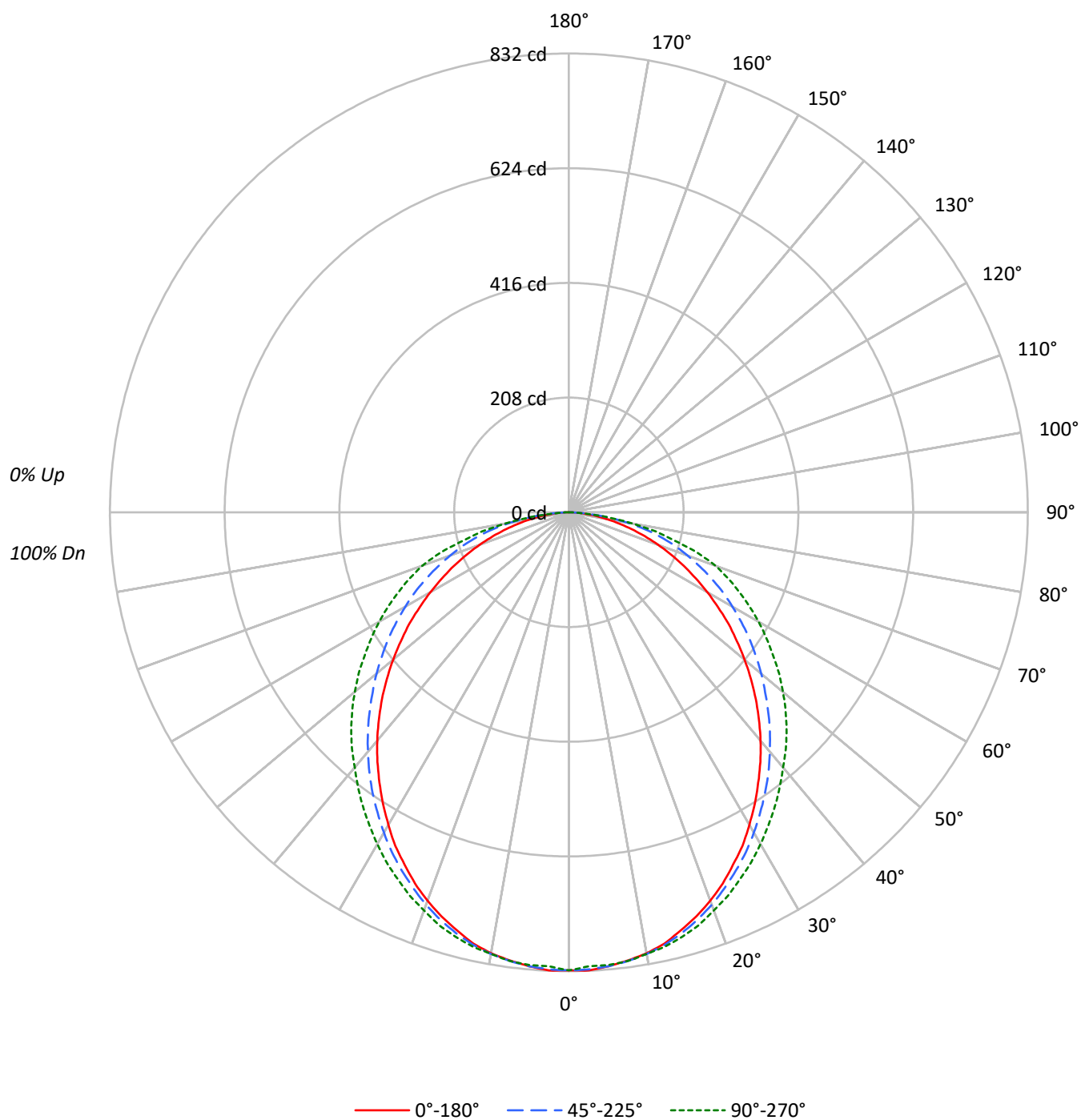
Input Watts (W): 20.739
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	91	88		90	87	85
2	99	90	83	77	96	88	82	77		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	78	70	64		75	68	63		72	66	62		69	64	60
4	82	70	61	54	80	69	61	54		66	59	53		64	58	53		62	56	52
5	76	63	54	47	74	62	53	47		59	52	46		57	51	46		56	50	45
6	70	56	47	41	68	56	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	36		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	34	29		39	33	29
10	53	40	32	26	52	39	32	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2235	2235	2235
5°	2232	2232	2226
10°	2219	2222	2222
15°	2186	2201	2219
20°	2146	2168	2200
25°	2092	2128	2180
30°	2033	2084	2159
35°	1966	2038	2139
40°	1899	1991	2122
45°	1824	1945	2124
50°	1741	1906	2121
55°	1658	1874	2120
60°	1561	1843	2138
65°	1463	1819	2167
70°	1352	1799	2221
75°	1218	1786	2059
80°	1068	1661	1798
85°	877	1250	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	3.4
10°-20°	222.8	9.8
20°-30°	330.9	14.5
30°-40°	389.5	17.1
40°-50°	397.1	17.4
50°-60°	358.1	15.7
60°-70°	282.1	12.4
70°-80°	174.0	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°	632.1	27.7
0°-40°	1021.6	44.8
0°-60°	1776.8	78.0
0°-90°	2278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	826	827	826	825	824	78
15°	784	788	790	794	796	221
25°	705	709	717	729	734	325
35°	598	605	620	640	651	374
45°	479	487	511	542	558	369
55°	353	365	399	436	452	315
65°	230	246	286	322	340	228
75°	117	137	172	192	198	125
85°	28	36	40	38	36	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.5	830.5	830.5	830.5	830.5
2.5°	831.6	831.6	829.4	827.2	823.9
5°	826.1	827.2	826.1	825.0	823.9
7.5°	819.5	820.6	820.6	820.6	820.6
10°	811.9	813.0	813.0	813.0	813.0
12.5°	800.9	802.0	803.1	804.2	806.4
15°	784.5	787.8	790.0	794.4	796.5
17.5°	768.1	771.4	774.7	780.1	784.5
20°	749.5	751.7	757.2	763.7	768.1
22.5°	728.7	732.0	737.5	746.2	752.8
25°	704.6	709.0	716.7	728.7	734.2
27.5°	681.7	684.9	694.8	707.9	715.6
30°	654.3	658.7	670.7	687.1	694.8
32.5°	627.0	632.4	645.6	664.2	672.9
35°	598.5	605.1	620.4	640.1	651.0
37.5°	570.1	576.6	594.1	616.0	628.0
40°	540.5	547.1	566.8	590.8	604.0
42.5°	509.9	517.5	539.4	566.8	582.1
45°	479.2	486.9	511.0	541.6	558.0
47.5°	447.5	456.3	482.5	516.4	532.9
50°	415.8	425.6	455.2	490.2	506.6
52.5°	384.0	395.0	426.7	462.8	480.3
55°	353.4	365.4	399.4	435.5	451.9
57.5°	320.6	334.8	370.9	405.9	424.5
60°	290.0	305.3	342.5	377.5	397.2
62.5°	259.3	275.7	315.1	350.1	368.7
65°	229.8	246.2	285.6	321.7	340.3
67.5°	200.2	218.8	257.1	293.2	311.8
70°	171.8	191.5	228.7	263.7	282.3
72.5°	144.4	164.1	201.3	234.1	245.1
75°	117.1	136.8	171.8	191.5	198.0
77.5°	91.9	110.5	141.1	153.2	161.9
80°	68.9	85.3	107.2	114.9	116.0
82.5°	47.0	61.3	74.4	75.5	74.4
85°	28.4	36.1	40.5	38.3	36.1
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)