

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: P259501

Luminaire Tested: **22CZ-LD5-24-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259501
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-L92765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2127.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

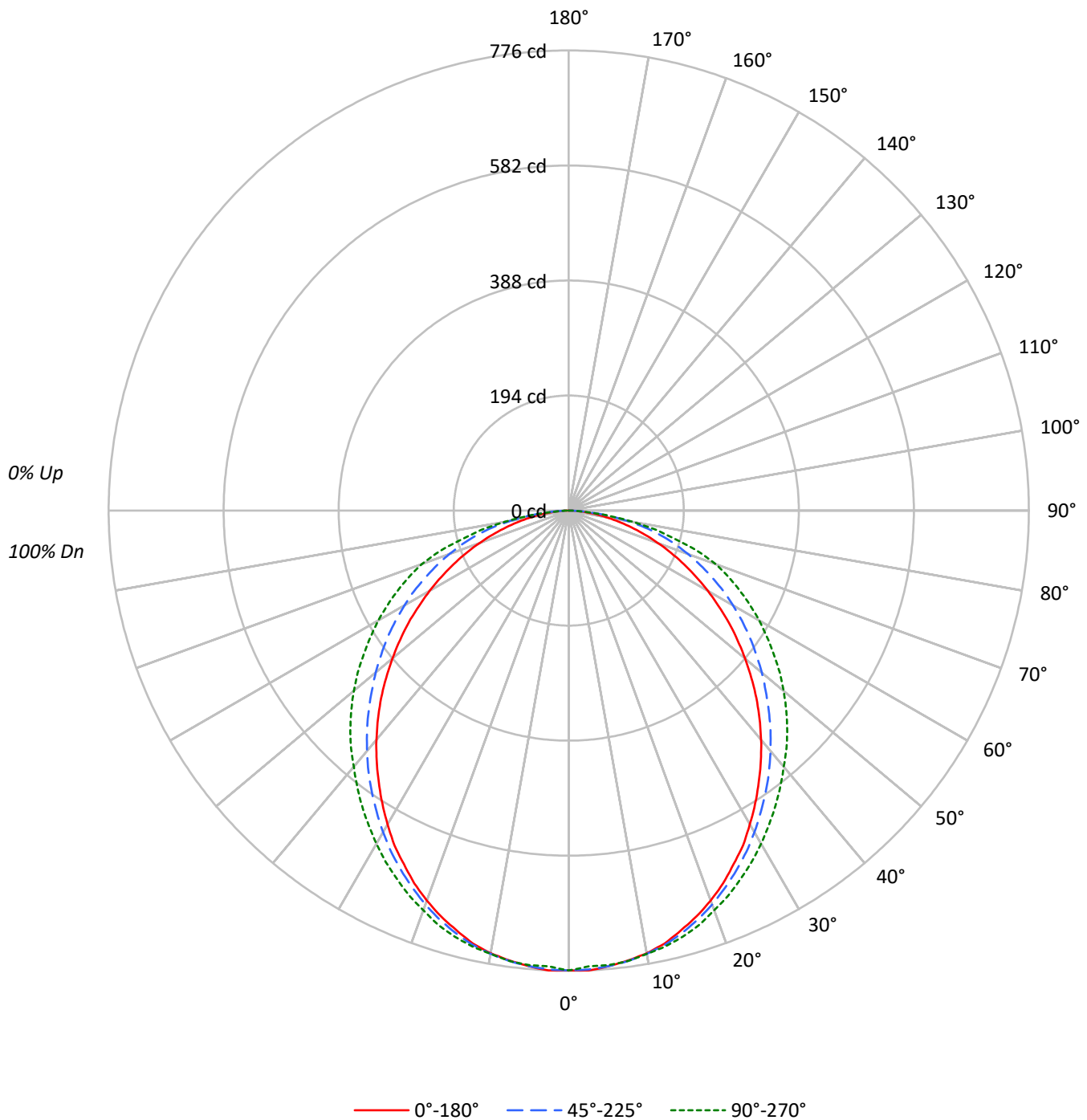
Input Watts (W): 17.577
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	2087	2087	2087
5°	2083	2083	2078
10°	2071	2074	2074
15°	2041	2055	2072
20°	2004	2025	2054
25°	1953	1987	2035
30°	1898	1946	2016
35°	1836	1903	1997
40°	1773	1859	1981
45°	1703	1816	1983
50°	1625	1779	1980
55°	1548	1749	1979
60°	1457	1721	1996
65°	1366	1698	2023
70°	1262	1680	2074
75°	1136	1668	1922
80°	998	1551	1678
85°	821	1167	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	3.4
10°-20°	208.0	9.8
20°-30°	309.0	14.5
30°-40°	363.7	17.1
40°-50°	370.7	17.4
50°-60°	334.4	15.7
60°-70°	263.4	12.4
70°-80°	162.5	7.6
80°-90°	42.2	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°	590.2	27.7
0°-40°	953.9	44.8
0°-60°	1659.0	78.0
0°-90°	2127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	771	772	771	770	769	73
15°	732	736	738	742	744	207
25°	658	662	669	680	686	303
35°	559	565	579	598	608	350
45°	448	455	477	506	521	345
55°	330	341	373	407	422	294
65°	214	230	267	300	318	213
75°	109	128	160	179	185	117
85°	27	34	38	36	34	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.4	775.4	775.4	775.4	775.4
2.5°	776.4	776.4	774.4	772.4	769.3
5°	771.3	772.4	771.3	770.3	769.3
7.5°	765.2	766.2	766.2	766.2	766.2
10°	758.0	759.1	759.1	759.1	759.1
12.5°	747.8	748.9	749.9	750.9	752.9
15°	732.5	735.6	737.6	741.7	743.7
17.5°	717.2	720.2	723.3	728.4	732.5
20°	699.8	701.9	707.0	713.1	717.2
22.5°	680.4	683.5	688.6	696.8	702.9
25°	657.9	662.0	669.2	680.4	685.5
27.5°	636.5	639.5	648.7	661.0	668.1
30°	610.9	615.0	626.3	641.6	648.7
32.5°	585.4	590.5	602.8	620.1	628.3
35°	558.8	565.0	579.3	597.7	607.9
37.5°	532.3	538.4	554.7	575.2	586.4
40°	504.7	510.8	529.2	551.7	563.9
42.5°	476.1	483.2	503.7	529.2	543.5
45°	447.5	454.6	477.1	505.7	521.0
47.5°	417.8	426.0	450.5	482.2	497.5
50°	388.2	397.4	425.0	457.7	473.0
52.5°	358.6	368.8	398.4	432.1	448.5
55°	330.0	341.2	372.9	406.6	421.9
57.5°	299.3	312.6	346.3	379.0	396.4
60°	270.7	285.0	319.8	352.5	370.9
62.5°	242.1	257.5	294.2	326.9	344.3
65°	214.5	229.9	266.6	300.4	317.7
67.5°	187.0	204.3	240.1	273.8	291.2
70°	160.4	178.8	213.5	246.2	263.6
72.5°	134.9	153.2	188.0	218.6	228.8
75°	109.3	127.7	160.4	178.8	184.9
77.5°	85.8	103.2	131.8	143.0	151.2
80°	64.4	79.7	100.1	107.3	108.3
82.5°	43.9	57.2	69.5	70.5	69.5
85°	26.6	33.7	37.8	35.8	33.7
87.5°	12.3	13.3	12.3	8.2	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)