

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: P259272

Luminaire Tested: **22CZ-LD5-20-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259272
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-LD5-20-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: 2194.0 lumens
Efficiency: N/A
Efficacy: 138.8 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

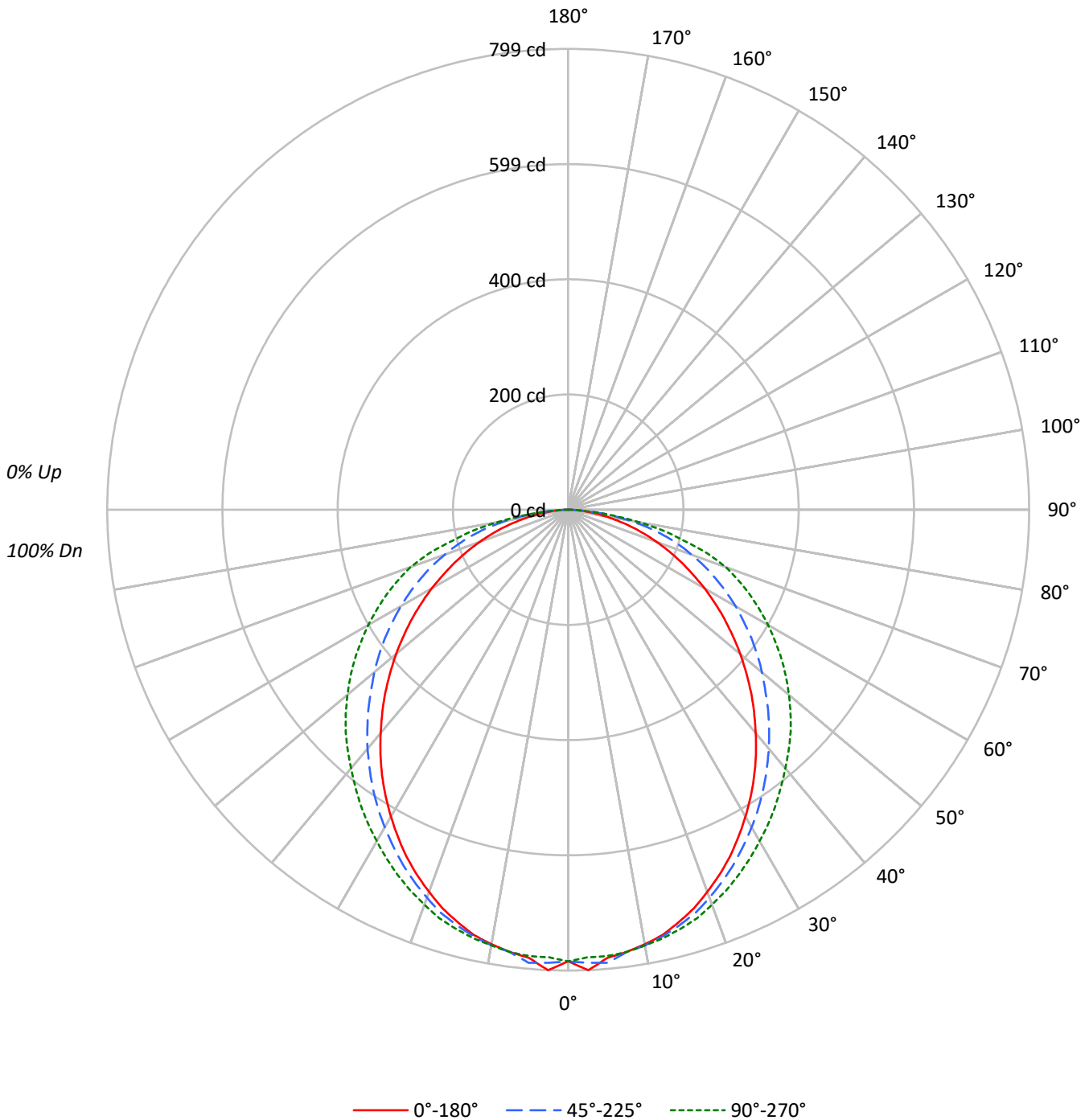
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2107	2107	2107
5°	2107	2130	2098
10°	2090	2096	2096
15°	2063	2078	2096
20°	2019	2050	2087
25°	1970	2015	2075
30°	1909	1976	2062
35°	1847	1938	2057
40°	1776	1900	2057
45°	1705	1864	2075
50°	1630	1836	2090
55°	1552	1817	2117
60°	1470	1803	2153
65°	1379	1794	2208
70°	1284	1788	2283
75°	1164	1786	2163
80°	1009	1654	1918
85°	855	1250	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	3.4
10°-20°	210.4	9.6
20°-30°	313.0	14.3
30°-40°	370.2	16.9
40°-50°	380.5	17.3
50°-60°	347.6	15.8
60°-70°	278.1	12.7
70°-80°	174.5	8.0
80°-90°	45.4	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°	597.6	27.2
0°-40°	967.8	44.1
0°-60°	1695.9	77.3
0°-90°	2194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	780	780	788	783	777	74
15°	740	742	746	750	752	209
25°	664	668	679	690	699	305
35°	562	570	590	612	626	351
45°	448	460	490	526	545	345
55°	331	347	387	430	451	296
65°	217	236	282	324	347	215
75°	112	133	172	197	208	119
85°	28	35	40	40	40	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.1	783.1	783.1	783.1	783.1
2.5°	799.1	795.9	786.3	779.9	776.7
5°	779.9	779.9	788.4	783.1	776.7
7.5°	773.5	773.5	773.5	789.5	773.5
10°	765.0	766.0	767.1	773.5	767.1
12.5°	755.4	755.4	757.5	759.6	760.7
15°	740.4	741.5	745.8	750.0	752.2
17.5°	724.4	727.6	733.0	738.3	742.6
20°	705.2	709.5	715.9	724.4	728.7
22.5°	685.0	689.2	697.8	707.4	714.8
25°	663.6	667.9	678.6	690.3	698.8
27.5°	639.1	644.4	657.2	673.2	681.8
30°	614.5	620.9	635.9	654.0	663.6
32.5°	588.9	596.4	613.5	633.7	645.5
35°	562.3	569.7	590.0	612.4	626.3
37.5°	534.5	543.1	565.5	591.1	606.0
40°	505.7	515.3	540.9	568.7	585.7
42.5°	476.9	487.6	515.3	548.4	565.5
45°	448.1	459.8	489.7	526.0	545.2
47.5°	418.2	432.1	463.0	503.6	522.8
50°	389.4	403.3	438.5	480.1	499.3
52.5°	359.5	375.6	412.9	455.6	475.8
55°	330.7	346.7	387.3	430.0	451.3
57.5°	301.9	317.9	360.6	404.4	425.7
60°	273.1	290.2	335.0	377.7	400.1
62.5°	244.3	262.5	308.3	352.1	373.4
65°	216.6	235.8	281.7	324.3	346.7
67.5°	189.9	210.2	255.0	296.6	319.0
70°	163.2	183.5	227.3	267.8	290.2
72.5°	137.6	157.9	200.6	236.9	253.9
75°	112.0	133.4	171.8	197.4	208.0
77.5°	87.5	108.8	141.9	159.0	170.7
80°	65.1	83.2	106.7	119.5	123.8
82.5°	44.8	59.7	74.7	77.9	80.0
85°	27.7	35.2	40.5	39.5	39.5
87.5°	12.8	13.9	11.7	8.5	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)