

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: P259496

Luminaire Tested: **22CZ-LD5-20-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259496
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-LD5-20-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2069.0 lumens
Efficiency: N/A
Efficacy: 129.3 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

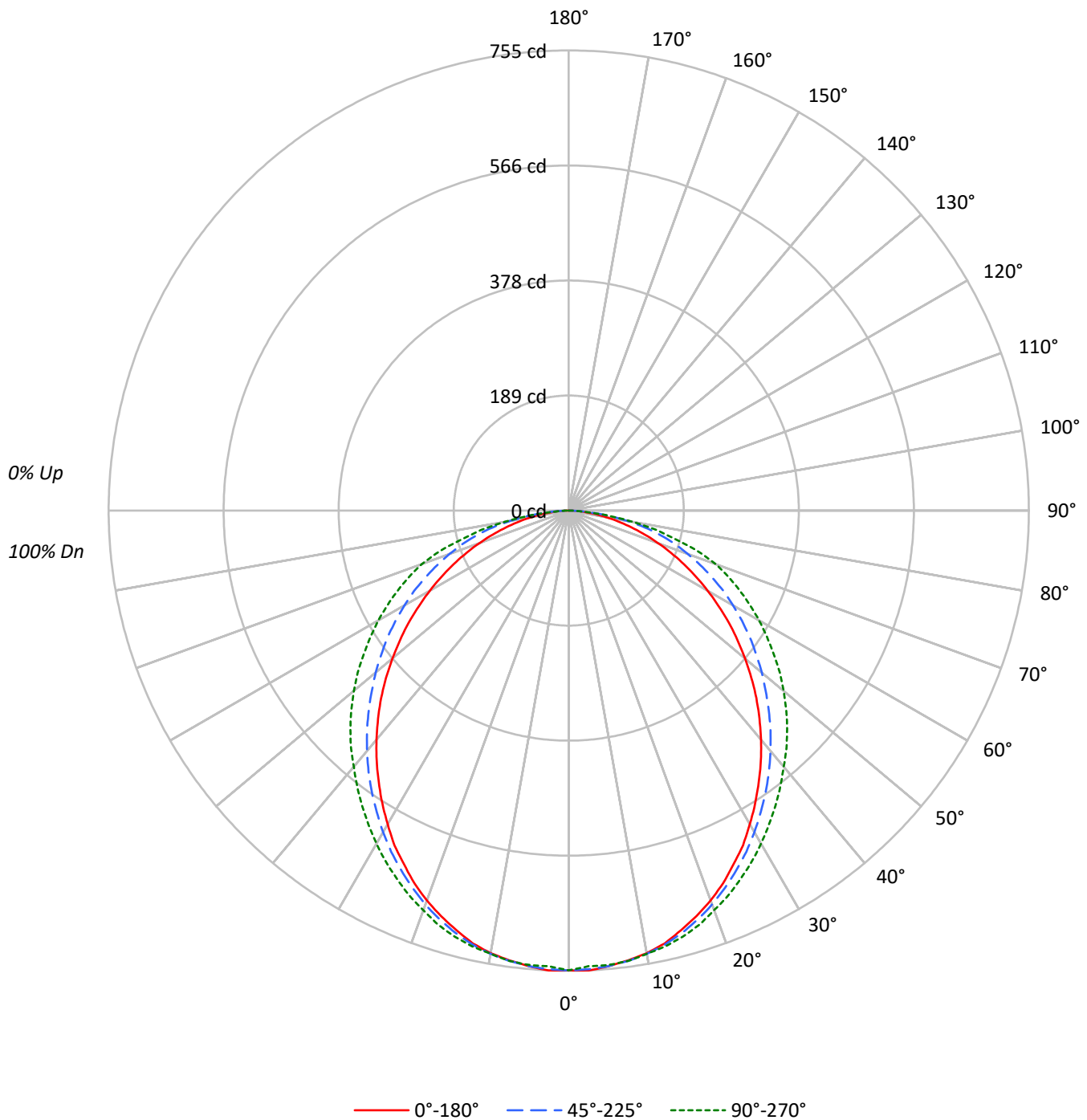
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2030	2030	2030
5°	2027	2027	2021
10°	2015	2018	2018
15°	1985	1999	2016
20°	1949	1969	1998
25°	1900	1933	1980
30°	1847	1893	1961
35°	1786	1851	1942
40°	1724	1808	1927
45°	1657	1766	1929
50°	1581	1731	1926
55°	1506	1702	1925
60°	1417	1674	1941
65°	1329	1652	1968
70°	1227	1634	2017
75°	1105	1622	1870
80°	970	1509	1632
85°	797	1136	1013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	3.4
10°-20°	202.3	9.8
20°-30°	300.5	14.5
30°-40°	353.8	17.1
40°-50°	360.6	17.4
50°-60°	325.3	15.7
60°-70°	256.2	12.4
70°-80°	158.0	7.6
80°-90°	41.0	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°	574.1	27.7
0°-40°	927.8	44.8
0°-60°	1613.8	78.0
0°-90°	2069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	750	751	750	749	748	71
15°	712	716	718	722	724	201
25°	640	644	651	662	667	295
35°	544	550	564	581	591	340
45°	435	442	464	492	507	336
55°	321	332	363	396	410	286
65°	209	224	259	292	309	207
75°	106	124	156	174	180	113
85°	26	33	37	35	33	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	754.3	754.3	754.3	754.3	754.3
2.5°	755.3	755.3	753.3	751.3	748.3
5°	750.3	751.3	750.3	749.3	748.3
7.5°	744.3	745.3	745.3	745.3	745.3
10°	737.4	738.4	738.4	738.4	738.4
12.5°	727.4	728.4	729.4	730.4	732.4
15°	712.5	715.5	717.5	721.5	723.5
17.5°	697.6	700.6	703.6	708.6	712.5
20°	680.7	682.7	687.7	693.7	697.6
22.5°	661.9	664.8	669.8	677.8	683.7
25°	640.0	644.0	650.9	661.9	666.8
27.5°	619.1	622.1	631.0	643.0	649.9
30°	594.3	598.3	609.2	624.1	631.0
32.5°	569.4	574.4	586.3	603.2	611.2
35°	543.6	549.6	563.5	581.4	591.3
37.5°	517.8	523.7	539.6	559.5	570.4
40°	490.9	496.9	514.8	536.6	548.6
42.5°	463.1	470.1	489.9	514.8	528.7
45°	435.3	442.2	464.1	491.9	506.8
47.5°	406.5	414.4	438.3	469.1	484.0
50°	377.6	386.6	413.4	445.2	460.1
52.5°	348.8	358.8	387.6	420.4	436.3
55°	321.0	331.9	362.7	395.5	410.4
57.5°	291.2	304.1	336.9	368.7	385.6
60°	263.3	277.3	311.1	342.9	360.7
62.5°	235.5	250.4	286.2	318.0	334.9
65°	208.7	223.6	259.4	292.2	309.1
67.5°	181.9	198.8	233.5	266.3	283.2
70°	156.0	173.9	207.7	239.5	256.4
72.5°	131.2	149.1	182.9	212.7	222.6
75°	106.3	124.2	156.0	173.9	179.9
77.5°	83.5	100.4	128.2	139.1	147.1
80°	62.6	77.5	97.4	104.3	105.3
82.5°	42.7	55.7	67.6	68.6	67.6
85°	25.8	32.8	36.8	34.8	32.8
87.5°	11.9	12.9	11.9	8.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)