

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: P259341

Luminaire Tested: **22CZ-LD5-29-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259341
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-LD5-29-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2322.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

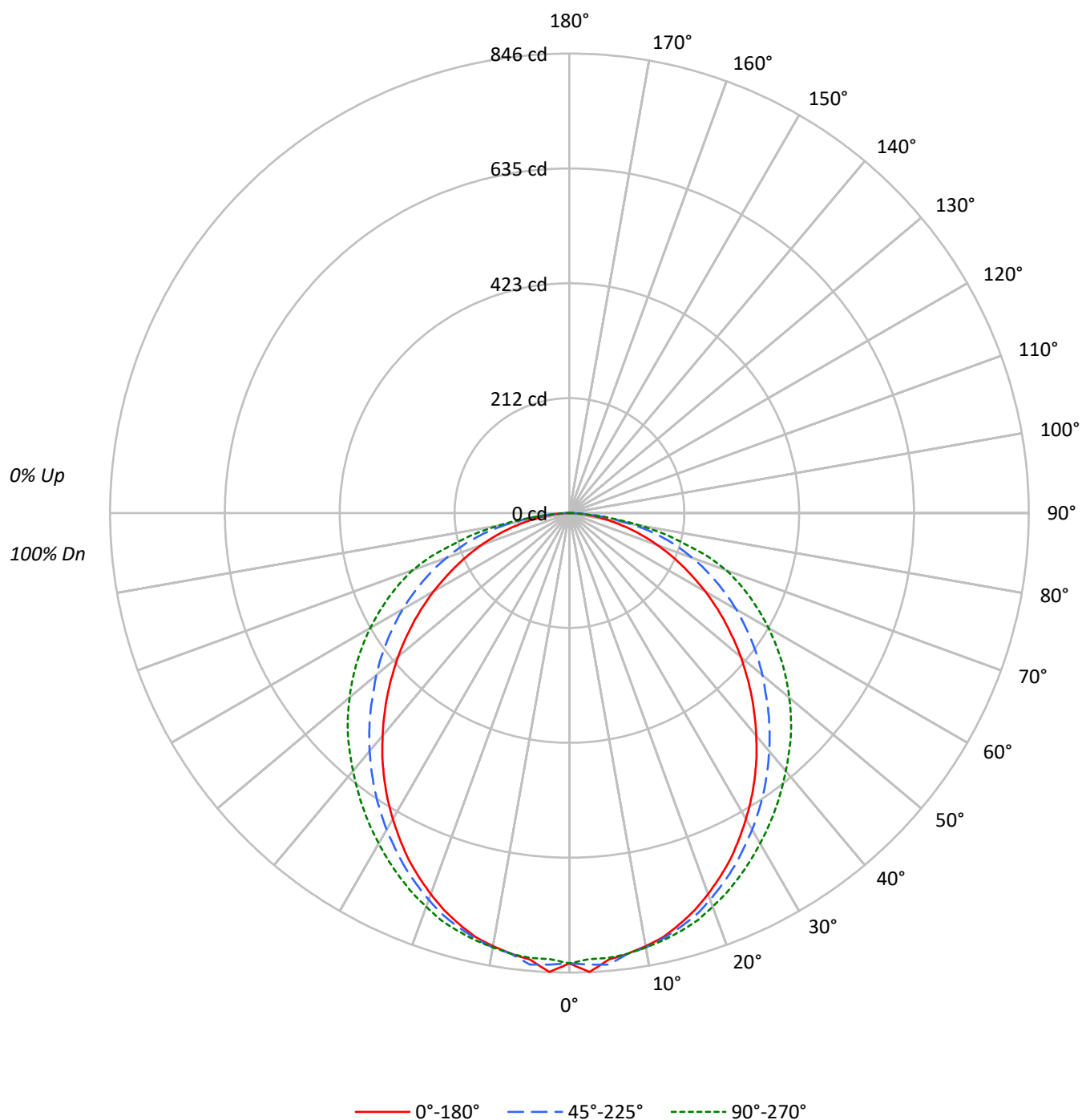
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2230	2230	2230
5°	2230	2254	2220
10°	2212	2219	2219
15°	2183	2199	2218
20°	2137	2170	2208
25°	2085	2132	2196
30°	2021	2091	2182
35°	1955	2051	2177
40°	1880	2011	2178
45°	1805	1972	2196
50°	1725	1943	2212
55°	1642	1923	2241
60°	1556	1908	2279
65°	1459	1898	2337
70°	1360	1892	2416
75°	1233	1890	2289
80°	1068	1750	2030
85°	908	1325	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	3.4
10°-20°	222.7	9.6
20°-30°	331.2	14.3
30°-40°	391.8	16.9
40°-50°	402.7	17.3
50°-60°	367.9	15.8
60°-70°	294.3	12.7
70°-80°	184.7	8.0
80°-90°	48.1	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°	632.5	27.2
0°-40°	1024.3	44.1
0°-60°	1794.9	77.3
0°-90°	2322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	825	825	834	829	822	78
15°	784	785	789	794	796	221
25°	702	707	718	731	740	323
35°	595	603	624	648	663	372
45°	474	487	518	557	577	366
55°	350	367	410	455	478	313
65°	229	250	298	343	367	228
75°	119	141	182	209	220	126
85°	29	37	43	42	42	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	828.8	828.8	828.8	828.8	828.8
2.5°	845.7	842.3	832.2	825.4	822.0
5°	825.4	825.4	834.4	828.8	822.0
7.5°	818.6	818.6	818.6	835.6	818.6
10°	809.6	810.7	811.9	818.6	811.9
12.5°	799.4	799.4	801.7	804.0	805.1
15°	783.6	784.8	789.3	793.8	796.1
17.5°	766.7	770.1	775.7	781.4	785.9
20°	746.4	750.9	757.7	766.7	771.2
22.5°	724.9	729.4	738.5	748.6	756.5
25°	702.3	706.9	718.1	730.6	739.6
27.5°	676.4	682.0	695.6	712.5	721.5
30°	650.4	657.2	673.0	692.2	702.3
32.5°	623.3	631.2	649.3	670.7	683.1
35°	595.1	603.0	624.4	648.1	662.8
37.5°	565.7	574.7	598.5	625.6	641.4
40°	535.2	545.4	572.5	601.8	619.9
42.5°	504.7	516.0	545.4	580.4	598.5
45°	474.2	486.7	518.3	556.7	577.0
47.5°	442.6	457.3	490.1	533.0	553.3
50°	412.1	426.8	464.1	508.1	528.4
52.5°	380.5	397.5	437.0	482.1	503.6
55°	350.0	367.0	409.9	455.0	477.6
57.5°	319.6	336.5	381.7	427.9	450.5
60°	289.1	307.1	354.6	399.7	423.4
62.5°	258.6	277.8	326.3	372.6	395.2
65°	229.2	249.5	298.1	343.3	367.0
67.5°	201.0	222.4	269.9	313.9	337.6
70°	172.8	194.2	240.5	283.4	307.1
72.5°	145.7	167.1	212.3	250.7	268.7
75°	118.6	141.1	181.8	208.9	220.2
77.5°	92.6	115.2	150.2	168.2	180.7
80°	68.9	88.1	112.9	126.5	131.0
82.5°	47.4	63.2	79.0	82.4	84.7
85°	29.4	37.3	42.9	41.8	41.8
87.5°	13.5	14.7	12.4	9.0	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)