

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: P259528

Luminaire Tested: **22CZ-LD5-39-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259528
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-LD5-39-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: 3436.0 lumens
Efficiency: N/A
Efficacy: 113.7 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

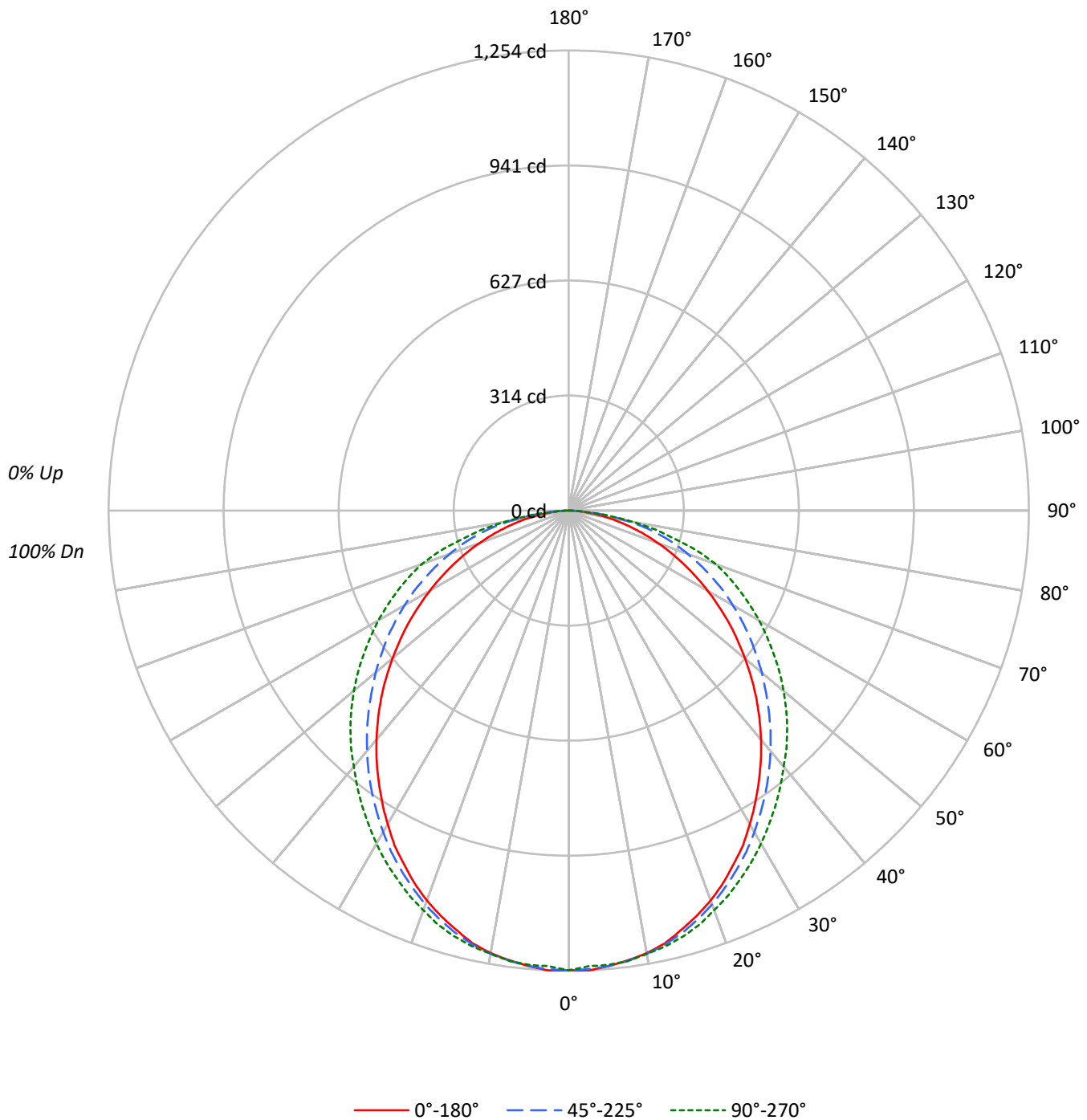
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3371	3371	3371
5°	3366	3366	3357
10°	3346	3351	3351
15°	3297	3320	3347
20°	3237	3271	3318
25°	3156	3210	3288
30°	3067	3144	3256
35°	2965	3074	3226
40°	2864	3003	3200
45°	2751	2933	3203
50°	2625	2874	3199
55°	2501	2826	3198
60°	2354	2780	3224
65°	2207	2742	3268
70°	2039	2714	3350
75°	1836	2694	3106
80°	1612	2506	2710
85°	1325	1886	1683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	3.4
10°-20°	336.0	9.8
20°-30°	499.1	14.5
30°-40°	587.5	17.1
40°-50°	598.9	17.4
50°-60°	540.2	15.7
60°-70°	425.5	12.4
70°-80°	262.5	7.6
80°-90°	68.1	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°	953.4	27.7
0°-40°	1540.9	44.8
0°-60°	2680.0	78.0
0°-90°	3436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1246	1248	1246	1244	1243	118
15°	1183	1188	1192	1198	1202	334
25°	1063	1069	1081	1099	1107	490
35°	903	913	936	966	982	565
45°	723	734	771	817	842	557
55°	533	551	602	657	682	476
65°	347	371	431	485	513	343
75°	177	206	259	289	299	188
85°	43	54	61	58	54	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.6	1252.6	1252.6	1252.6	1252.6
2.5°	1254.3	1254.3	1251.0	1247.7	1242.7
5°	1246.0	1247.7	1246.0	1244.4	1242.7
7.5°	1236.1	1237.8	1237.8	1237.8	1237.8
10°	1224.6	1226.2	1226.2	1226.2	1226.2
12.5°	1208.1	1209.7	1211.4	1213.0	1216.3
15°	1183.3	1188.3	1191.6	1198.2	1201.5
17.5°	1158.6	1163.5	1168.5	1176.7	1183.3
20°	1130.5	1133.8	1142.1	1152.0	1158.6
22.5°	1099.1	1104.1	1112.3	1125.5	1135.4
25°	1062.8	1069.4	1081.0	1099.1	1107.4
27.5°	1028.2	1033.1	1048.0	1067.8	1079.3
30°	986.9	993.5	1011.7	1036.4	1048.0
32.5°	945.7	953.9	973.7	1001.8	1015.0
35°	902.7	912.7	935.8	965.5	982.0
37.5°	859.8	869.7	896.1	929.2	947.3
40°	815.3	825.2	854.9	891.2	911.0
42.5°	769.1	780.6	813.6	854.9	878.0
45°	722.9	734.4	770.7	816.9	841.7
47.5°	675.0	688.2	727.8	779.0	803.7
50°	627.1	642.0	686.6	739.4	764.1
52.5°	579.3	595.8	643.6	698.1	724.5
55°	533.1	551.2	602.4	656.8	681.6
57.5°	483.6	505.0	559.5	612.3	640.3
60°	437.3	460.5	516.6	569.4	599.1
62.5°	391.1	415.9	475.3	528.1	556.2
65°	346.6	371.3	430.7	485.2	513.3
67.5°	302.0	330.1	387.8	442.3	470.4
70°	259.1	288.8	344.9	397.7	425.8
72.5°	217.8	247.6	303.7	353.2	369.7
75°	176.6	206.3	259.1	288.8	298.7
77.5°	138.6	166.7	212.9	231.1	244.3
80°	104.0	128.7	161.7	173.3	174.9
82.5°	71.0	92.4	112.2	113.9	112.2
85°	42.9	54.5	61.1	57.8	54.5
87.5°	19.8	21.5	19.8	13.2	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)