

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: P259347

Luminaire Tested: **22CZ-LD5-29-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259347
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-5700K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2687.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

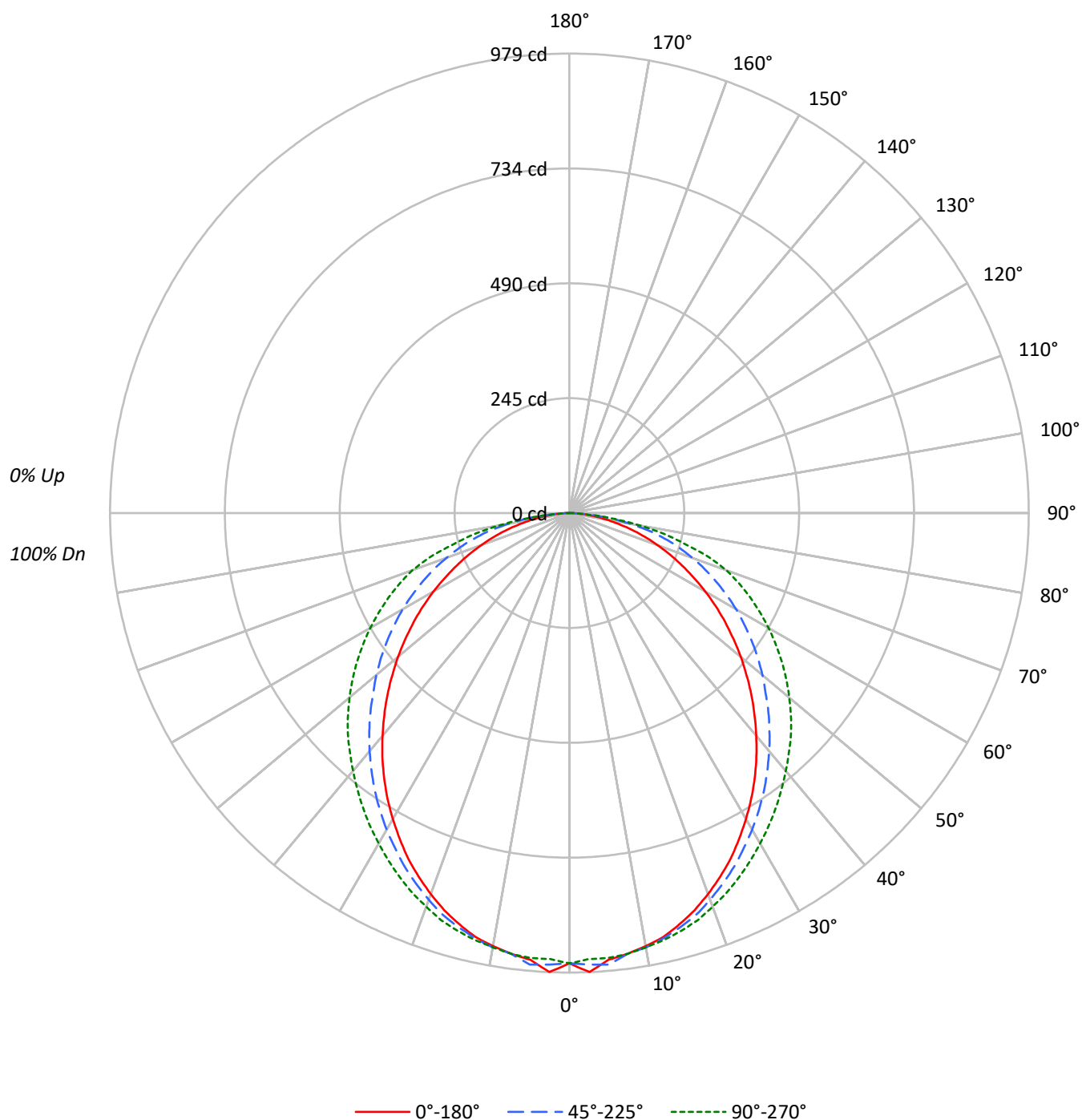
Input Watts (W): 21.483
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2581	2581	2581
5°	2580	2608	2569
10°	2560	2567	2567
15°	2526	2544	2566
20°	2473	2511	2556
25°	2413	2467	2541
30°	2339	2420	2525
35°	2262	2374	2520
40°	2176	2327	2520
45°	2089	2283	2541
50°	1997	2248	2560
55°	1901	2225	2593
60°	1800	2208	2637
65°	1689	2197	2704
70°	1573	2190	2796
75°	1426	2188	2649
80°	1235	2025	2349
85°	1050	1535	1491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.4
10°-20°	257.7	9.6
20°-30°	383.3	14.3
30°-40°	453.3	16.9
40°-50°	465.9	17.3
50°-60°	425.8	15.8
60°-70°	340.6	12.7
70°-80°	213.8	8.0
80°-90°	55.7	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°	731.9	27.2
0°-40°	1185.3	44.1
0°-60°	2077.0	77.3
0°-90°	2687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	955	955	966	959	951	91
15°	907	908	913	919	921	255
25°	813	818	831	845	856	374
35°	689	698	723	750	767	430
45°	549	563	600	644	668	423
55°	405	425	474	527	553	362
65°	265	289	345	397	425	263
75°	137	163	210	242	255	146
85°	34	43	50	48	48	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.1	959.1	959.1	959.1	959.1
2.5°	978.7	974.8	963.0	955.2	951.2
5°	955.2	955.2	965.6	959.1	951.2
7.5°	947.3	947.3	947.3	966.9	947.3
10°	936.9	938.2	939.5	947.3	939.5
12.5°	925.1	925.1	927.7	930.3	931.6
15°	906.8	908.1	913.3	918.6	921.2
17.5°	887.2	891.1	897.7	904.2	909.4
20°	863.7	868.9	876.8	887.2	892.4
22.5°	838.9	844.1	854.5	866.3	875.5
25°	812.7	818.0	831.0	845.4	855.9
27.5°	782.7	789.2	804.9	824.5	834.9
30°	752.6	760.5	778.8	801.0	812.7
32.5°	721.3	730.4	751.3	776.1	790.5
35°	688.6	697.8	722.6	750.0	767.0
37.5°	654.6	665.1	692.5	723.9	742.2
40°	619.4	631.1	662.5	696.4	717.4
42.5°	584.1	597.1	631.1	671.6	692.5
45°	548.8	563.2	599.8	644.2	667.7
47.5°	512.2	529.2	567.1	616.7	640.3
50°	476.9	493.9	537.0	588.0	611.5
52.5°	440.3	459.9	505.7	557.9	582.8
55°	405.1	424.7	474.3	526.6	552.7
57.5°	369.8	389.4	441.6	495.2	521.4
60°	334.5	355.4	410.3	462.6	490.0
62.5°	299.2	321.4	377.6	431.2	457.3
65°	265.2	288.8	345.0	397.2	424.7
67.5°	232.6	257.4	312.3	363.2	390.7
70°	199.9	224.7	278.3	328.0	355.4
72.5°	168.6	193.4	245.7	290.1	311.0
75°	137.2	163.3	210.4	241.7	254.8
77.5°	107.1	133.3	173.8	194.7	209.1
80°	79.7	101.9	130.7	146.3	151.6
82.5°	54.9	73.2	91.5	95.4	98.0
85°	34.0	43.1	49.7	48.3	48.3
87.5°	15.7	17.0	14.4	10.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)