

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: P259511

Luminaire Tested: **22CZ-LD5-29-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259511
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-LD5-29-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2567.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

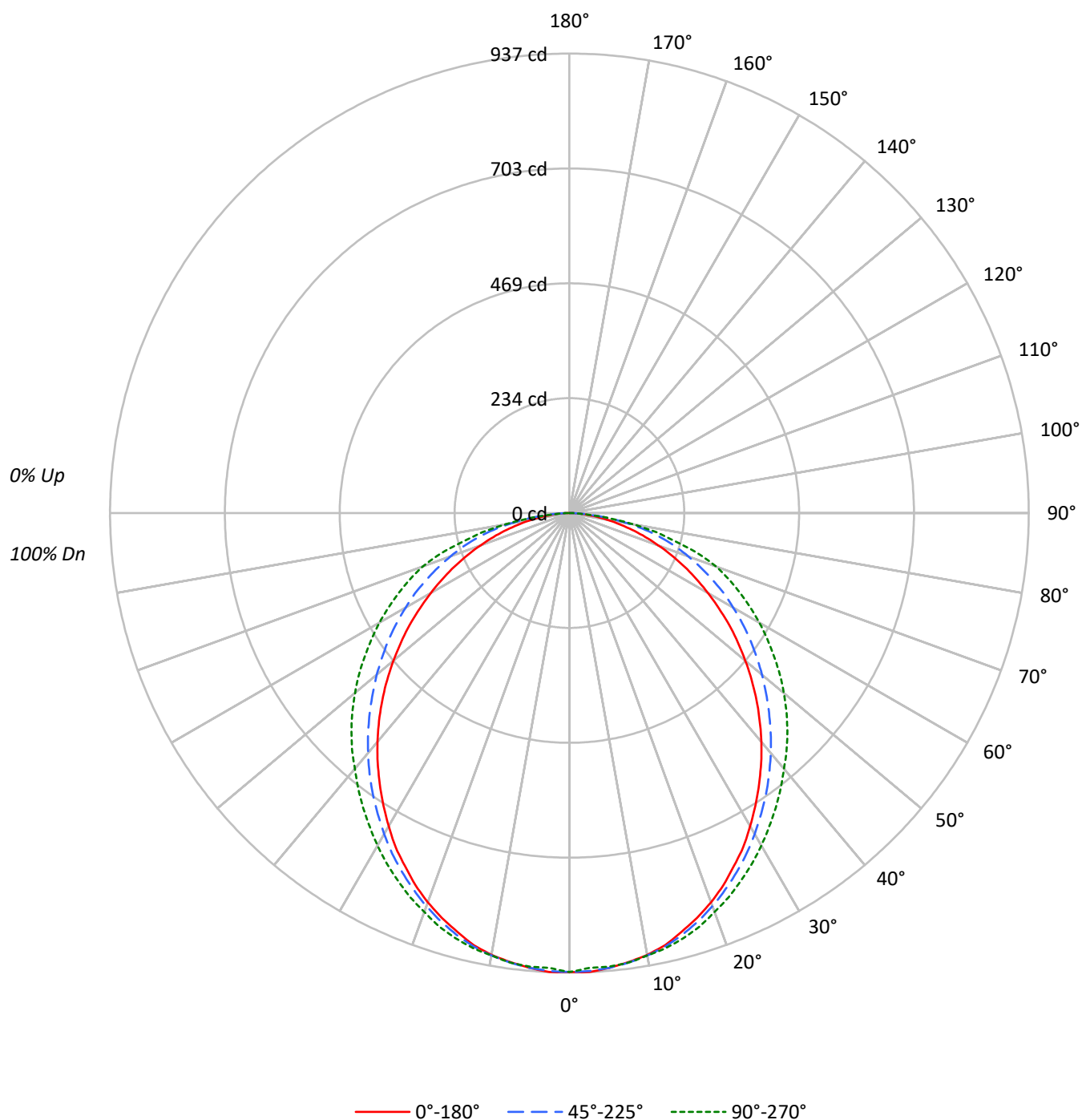
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2518	2518	2518
5°	2515	2515	2508
10°	2500	2503	2503
15°	2463	2480	2501
20°	2419	2443	2479
25°	2358	2398	2456
30°	2291	2348	2433
35°	2215	2297	2410
40°	2140	2244	2391
45°	2055	2191	2393
50°	1961	2147	2390
55°	1868	2111	2389
60°	1758	2077	2409
65°	1649	2049	2442
70°	1523	2028	2503
75°	1371	2013	2321
80°	1204	1872	2025
85°	991	1408	1257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.4
10°-20°	251.0	9.8
20°-30°	372.9	14.5
30°-40°	438.9	17.1
40°-50°	447.4	17.4
50°-60°	403.5	15.7
60°-70°	317.9	12.4
70°-80°	196.1	7.6
80°-90°	50.9	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°	712.3	27.7
0°-40°	1151.2	44.8
0°-60°	2002.2	78.0
0°-90°	2567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	931	932	931	930	928	88
15°	884	888	890	895	898	249
25°	794	799	808	821	827	366
35°	674	682	699	721	734	422
45°	540	549	576	610	629	416
55°	398	412	450	491	509	355
65°	259	277	322	362	384	256
75°	132	154	194	216	223	141
85°	32	41	46	43	41	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.8	935.8	935.8	935.8	935.8
2.5°	937.1	937.1	934.6	932.1	928.4
5°	930.9	932.1	930.9	929.7	928.4
7.5°	923.5	924.7	924.7	924.7	924.7
10°	914.9	916.1	916.1	916.1	916.1
12.5°	902.5	903.8	905.0	906.2	908.7
15°	884.0	887.7	890.2	895.1	897.6
17.5°	865.5	869.2	872.9	879.1	884.0
20°	844.6	847.0	853.2	860.6	865.5
22.5°	821.2	824.9	831.0	840.9	848.3
25°	794.0	799.0	807.6	821.2	827.3
27.5°	768.1	771.8	782.9	797.7	806.4
30°	737.3	742.2	755.8	774.3	782.9
32.5°	706.5	712.7	727.5	748.4	758.3
35°	674.4	681.8	699.1	721.3	733.6
37.5°	642.4	649.8	669.5	694.2	707.7
40°	609.1	616.5	638.7	665.8	680.6
42.5°	574.6	583.2	607.9	638.7	655.9
45°	540.0	548.7	575.8	610.3	628.8
47.5°	504.3	514.1	543.7	582.0	600.5
50°	468.5	479.6	512.9	552.4	570.9
52.5°	432.8	445.1	480.9	521.5	541.3
55°	398.2	411.8	450.0	490.7	509.2
57.5°	361.3	377.3	418.0	457.4	478.4
60°	326.7	344.0	385.9	425.4	447.6
62.5°	292.2	310.7	355.1	394.6	415.5
65°	258.9	277.4	321.8	362.5	383.5
67.5°	225.6	246.6	289.7	330.4	351.4
70°	193.6	215.8	257.7	297.1	318.1
72.5°	162.8	184.9	226.9	263.9	276.2
75°	131.9	154.1	193.6	215.8	223.2
77.5°	103.6	124.5	159.1	172.6	182.5
80°	77.7	96.2	120.8	129.5	130.7
82.5°	53.0	69.0	83.8	85.1	83.8
85°	32.1	40.7	45.6	43.2	40.7
87.5°	14.8	16.0	14.8	9.9	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)