

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: P259254

Luminaire Tested: **22CZ-LD5-34-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259254
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-LD5-34-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2921.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

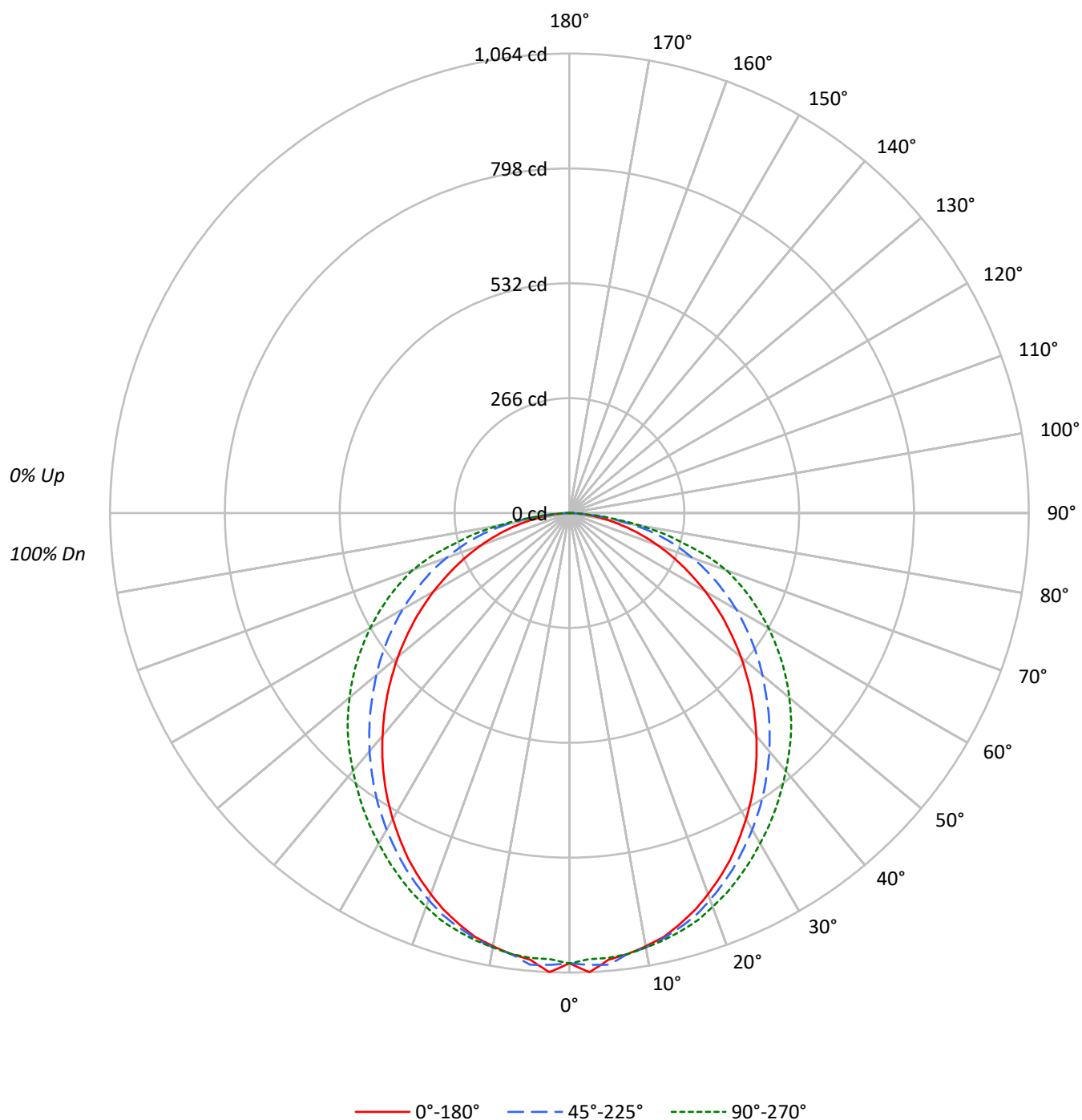
Input Watts (W): 26.155692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2806	2806	2806
5°	2805	2836	2793
10°	2783	2791	2791
15°	2746	2766	2790
20°	2689	2729	2778
25°	2623	2682	2763
30°	2542	2631	2745
35°	2459	2580	2739
40°	2365	2530	2739
45°	2270	2481	2762
50°	2171	2444	2783
55°	2066	2419	2819
60°	1957	2400	2867
65°	1836	2388	2939
70°	1710	2381	3040
75°	1550	2378	2880
80°	1342	2201	2554
85°	1139	1667	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.4
10°-20°	280.1	9.6
20°-30°	416.7	14.3
30°-40°	492.8	16.9
40°-50°	506.5	17.3
50°-60°	462.8	15.8
60°-70°	370.3	12.7
70°-80°	232.4	8.0
80°-90°	60.5	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°	795.7	27.2
0°-40°	1288.5	44.1
0°-60°	2257.8	77.3
0°-90°	2921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1038	1038	1050	1043	1034	99
15°	986	987	993	999	1001	278
25°	884	889	903	919	930	406
35°	749	758	786	815	834	468
45°	597	612	652	700	726	460
55°	440	462	516	572	601	394
65°	288	314	375	432	462	286
75°	149	178	229	263	277	158
85°	37	47	54	53	53	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.6	1042.6	1042.6	1042.6	1042.6
2.5°	1063.9	1059.6	1046.9	1038.3	1034.1
5°	1038.3	1038.3	1049.7	1042.6	1034.1
7.5°	1029.8	1029.8	1029.8	1051.1	1029.8
10°	1018.5	1019.9	1021.3	1029.8	1021.3
12.5°	1005.7	1005.7	1008.5	1011.4	1012.8
15°	985.8	987.2	992.9	998.6	1001.4
17.5°	964.5	968.7	975.8	982.9	988.6
20°	938.9	944.6	953.1	964.5	970.2
22.5°	911.9	917.6	929.0	941.8	951.7
25°	883.5	889.2	903.4	919.0	930.4
27.5°	850.8	857.9	875.0	896.3	907.7
30°	818.2	826.7	846.6	870.7	883.5
32.5°	784.1	794.0	816.8	843.7	859.4
35°	748.6	758.5	785.5	815.3	833.8
37.5°	711.6	723.0	752.8	786.9	806.8
40°	673.3	686.1	720.2	757.1	779.8
42.5°	634.9	649.1	686.1	730.1	752.8
45°	596.6	612.2	652.0	700.3	725.8
47.5°	556.8	575.3	616.5	670.4	696.0
50°	518.5	536.9	583.8	639.2	664.8
52.5°	478.7	500.0	549.7	606.5	633.5
55°	440.3	461.6	515.6	572.4	600.8
57.5°	402.0	423.3	480.1	538.3	566.8
60°	363.6	386.4	446.0	502.8	532.7
62.5°	325.3	349.4	410.5	468.7	497.2
65°	288.3	313.9	375.0	431.8	461.6
67.5°	252.8	279.8	339.5	394.9	424.7
70°	217.3	244.3	302.6	356.5	386.4
72.5°	183.2	210.2	267.0	315.3	338.1
75°	149.1	177.6	228.7	262.8	277.0
77.5°	116.5	144.9	188.9	211.6	227.3
80°	86.6	110.8	142.0	159.1	164.8
82.5°	59.7	79.5	99.4	103.7	106.5
85°	36.9	46.9	54.0	52.6	52.6
87.5°	17.0	18.5	15.6	11.4	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)