

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: P259421

Luminaire Tested: **22CZ-LD5-34-S-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259421
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-LD5-34-S-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2727.0 lumens
Efficiency: N/A
Efficacy: 103.9 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

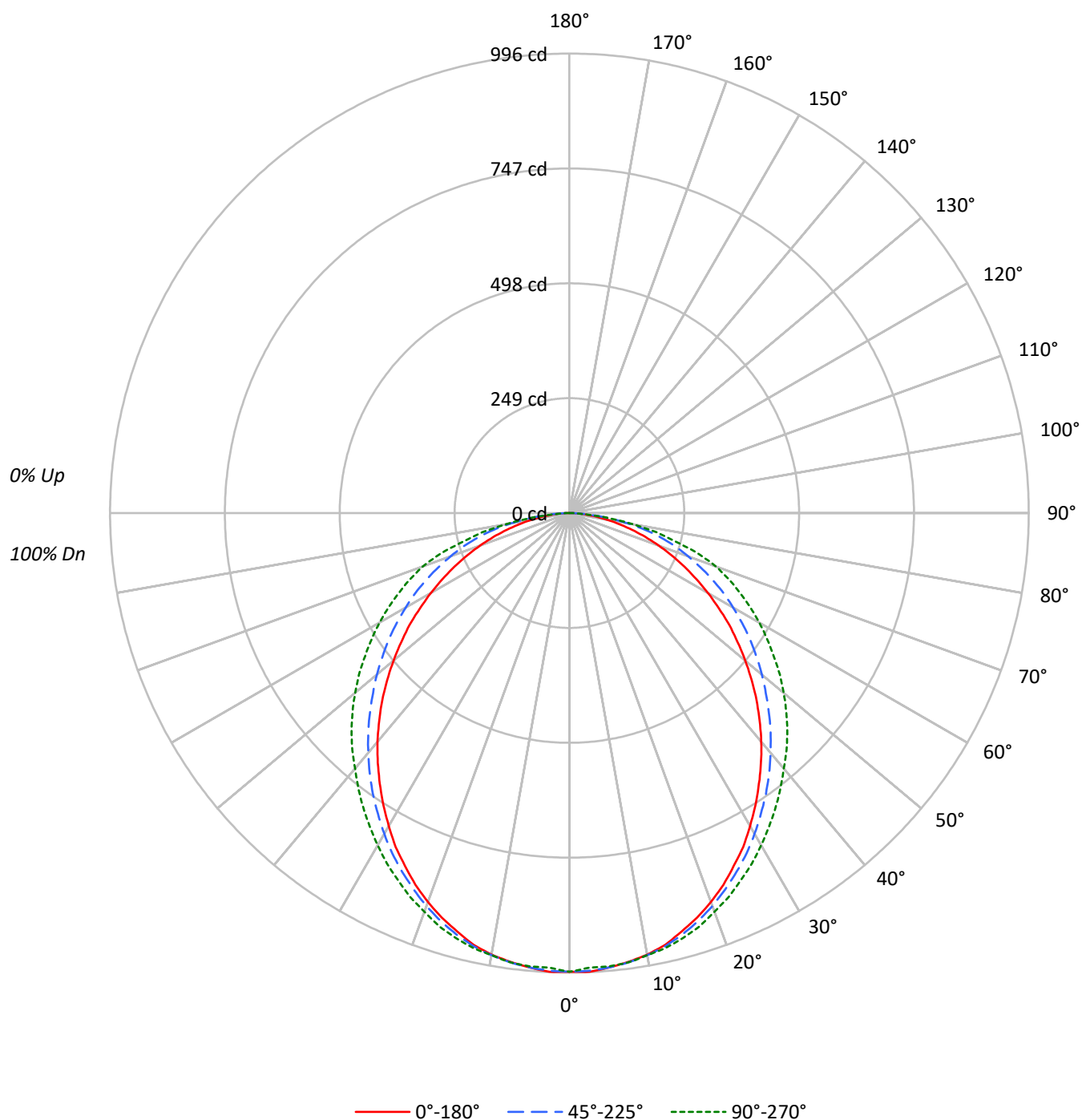
Input Watts (W): 26.258364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2675	2675	2675
5°	2671	2671	2664
10°	2656	2659	2659
15°	2616	2635	2656
20°	2569	2596	2633
25°	2504	2547	2610
30°	2434	2495	2584
35°	2354	2440	2560
40°	2273	2383	2540
45°	2183	2328	2542
50°	2084	2281	2539
55°	1985	2243	2538
60°	1868	2207	2559
65°	1752	2177	2594
70°	1618	2154	2659
75°	1458	2138	2465
80°	1278	1990	2151
85°	1053	1497	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.4
10°-20°	266.7	9.8
20°-30°	396.1	14.5
30°-40°	466.2	17.1
40°-50°	475.3	17.4
50°-60°	428.7	15.7
60°-70°	337.7	12.4
70°-80°	208.3	7.6
80°-90°	54.1	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°	756.7	27.7
0°-40°	1222.9	44.8
0°-60°	2126.9	78.0
0°-90°	2727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	989	990	989	988	986	94
15°	939	943	946	951	954	265
25°	844	849	858	872	879	389
35°	716	724	743	766	779	448
45°	574	583	612	648	668	442
55°	423	438	478	521	541	378
65°	275	295	342	385	407	272
75°	140	164	206	229	237	150
85°	34	43	48	46	43	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	994.2	994.2	994.2	994.2	994.2
2.5°	995.5	995.5	992.8	990.2	986.3
5°	988.9	990.2	988.9	987.6	986.3
7.5°	981.1	982.4	982.4	982.4	982.4
10°	971.9	973.2	973.2	973.2	973.2
12.5°	958.8	960.1	961.4	962.7	965.3
15°	939.1	943.1	945.7	950.9	953.5
17.5°	919.5	923.4	927.4	933.9	939.1
20°	897.2	899.8	906.4	914.3	919.5
22.5°	872.3	876.3	882.8	893.3	901.2
25°	843.5	848.8	857.9	872.3	878.9
27.5°	816.0	819.9	831.7	847.5	856.6
30°	783.3	788.5	802.9	822.6	831.7
32.5°	750.5	757.1	772.8	795.1	805.5
35°	716.5	724.3	742.7	766.2	779.3
37.5°	682.4	690.3	711.2	737.4	751.8
40°	647.1	654.9	678.5	707.3	723.0
42.5°	610.4	619.5	645.7	678.5	696.8
45°	573.7	582.9	611.7	648.4	668.0
47.5°	535.7	546.2	577.6	618.2	637.9
50°	497.7	509.5	544.9	586.8	606.4
52.5°	459.7	472.8	510.8	554.1	575.0
55°	423.1	437.5	478.1	521.3	541.0
57.5°	383.8	400.8	444.0	485.9	508.2
60°	347.1	365.4	410.0	451.9	475.5
62.5°	310.4	330.1	377.2	419.1	441.4
65°	275.1	294.7	341.9	385.1	407.4
67.5°	239.7	262.0	307.8	351.0	373.3
70°	205.6	229.2	273.8	315.7	337.9
72.5°	172.9	196.5	241.0	280.3	293.4
75°	140.2	163.7	205.6	229.2	237.1
77.5°	110.0	132.3	169.0	183.4	193.9
80°	82.5	102.2	128.4	137.5	138.8
82.5°	56.3	73.3	89.1	90.4	89.1
85°	34.1	43.2	48.5	45.8	43.2
87.5°	15.7	17.0	15.7	10.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)