

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: P259519

Luminaire Tested: **22CZ-LD5-34-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259519
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-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: 2999.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

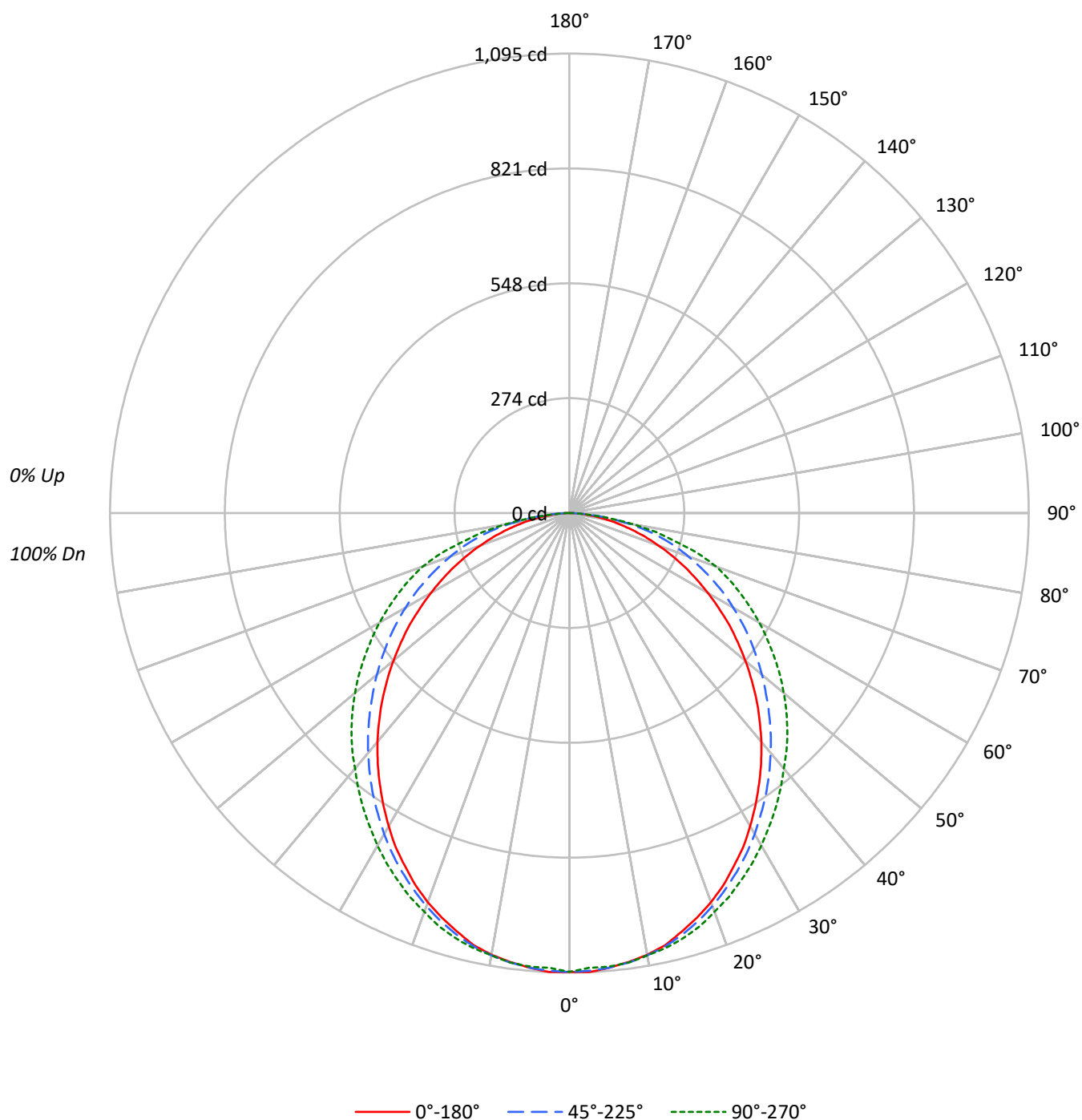
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2942	2942	2942
5°	2938	2938	2930
10°	2920	2925	2925
15°	2877	2897	2922
20°	2826	2855	2896
25°	2754	2801	2870
30°	2677	2744	2842
35°	2588	2683	2816
40°	2500	2621	2793
45°	2401	2560	2796
50°	2292	2509	2792
55°	2183	2467	2791
60°	2054	2427	2814
65°	1926	2394	2853
70°	1780	2369	2924
75°	1602	2352	2711
80°	1406	2188	2366
85°	1158	1646	1467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.4
10°-20°	293.3	9.8
20°-30°	435.6	14.5
30°-40°	512.8	17.1
40°-50°	522.7	17.4
50°-60°	471.5	15.7
60°-70°	371.4	12.4
70°-80°	229.1	7.6
80°-90°	59.5	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°	832.1	27.7
0°-40°	1344.9	44.8
0°-60°	2339.1	78.0
0°-90°	2999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1088	1089	1088	1086	1085	103
15°	1033	1037	1040	1046	1049	291
25°	928	933	944	959	967	427
35°	788	797	817	843	857	493
45°	631	641	673	713	735	486
55°	465	481	526	573	595	415
65°	302	324	376	424	448	300
75°	154	180	226	252	261	164
85°	38	48	53	50	48	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.3	1093.3	1093.3	1093.3	1093.3
2.5°	1094.8	1094.8	1091.9	1089.0	1084.7
5°	1087.6	1089.0	1087.6	1086.1	1084.7
7.5°	1078.9	1080.3	1080.3	1080.3	1080.3
10°	1068.8	1070.3	1070.3	1070.3	1070.3
12.5°	1054.4	1055.9	1057.3	1058.7	1061.6
15°	1032.8	1037.1	1040.0	1045.8	1048.7
17.5°	1011.2	1015.5	1019.8	1027.1	1032.8
20°	986.7	989.6	996.8	1005.4	1011.2
22.5°	959.3	963.7	970.9	982.4	991.0
25°	927.7	933.4	943.5	959.3	966.6
27.5°	897.4	901.7	914.7	932.0	942.1
30°	861.4	867.2	883.0	904.6	914.7
32.5°	825.4	832.6	849.9	874.4	885.9
35°	787.9	796.6	816.7	842.7	857.1
37.5°	750.5	759.1	782.2	811.0	826.8
40°	711.6	720.2	746.2	777.9	795.1
42.5°	671.3	681.3	710.1	746.2	766.3
45°	630.9	641.0	672.7	713.0	734.6
47.5°	589.2	600.7	635.2	679.9	701.5
50°	547.4	560.3	599.2	645.3	666.9
52.5°	505.6	520.0	561.8	609.3	632.4
55°	465.3	481.1	525.8	573.3	594.9
57.5°	422.1	440.8	488.3	534.4	558.9
60°	381.7	401.9	450.9	497.0	522.9
62.5°	341.4	363.0	414.9	460.9	485.4
65°	302.5	324.1	376.0	423.5	448.0
67.5°	263.6	288.1	338.5	386.0	410.5
70°	226.2	252.1	301.1	347.2	371.6
72.5°	190.1	216.1	265.0	308.3	322.7
75°	154.1	180.1	226.2	252.1	260.7
77.5°	121.0	145.5	185.8	201.7	213.2
80°	90.7	112.4	141.2	151.2	152.7
82.5°	61.9	80.7	98.0	99.4	98.0
85°	37.5	47.5	53.3	50.4	47.5
87.5°	17.3	18.7	17.3	11.5	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)