

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: P259351

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259351
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-L92765-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: 2940.0 lumens
Efficiency: N/A
Efficacy: 114.1 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

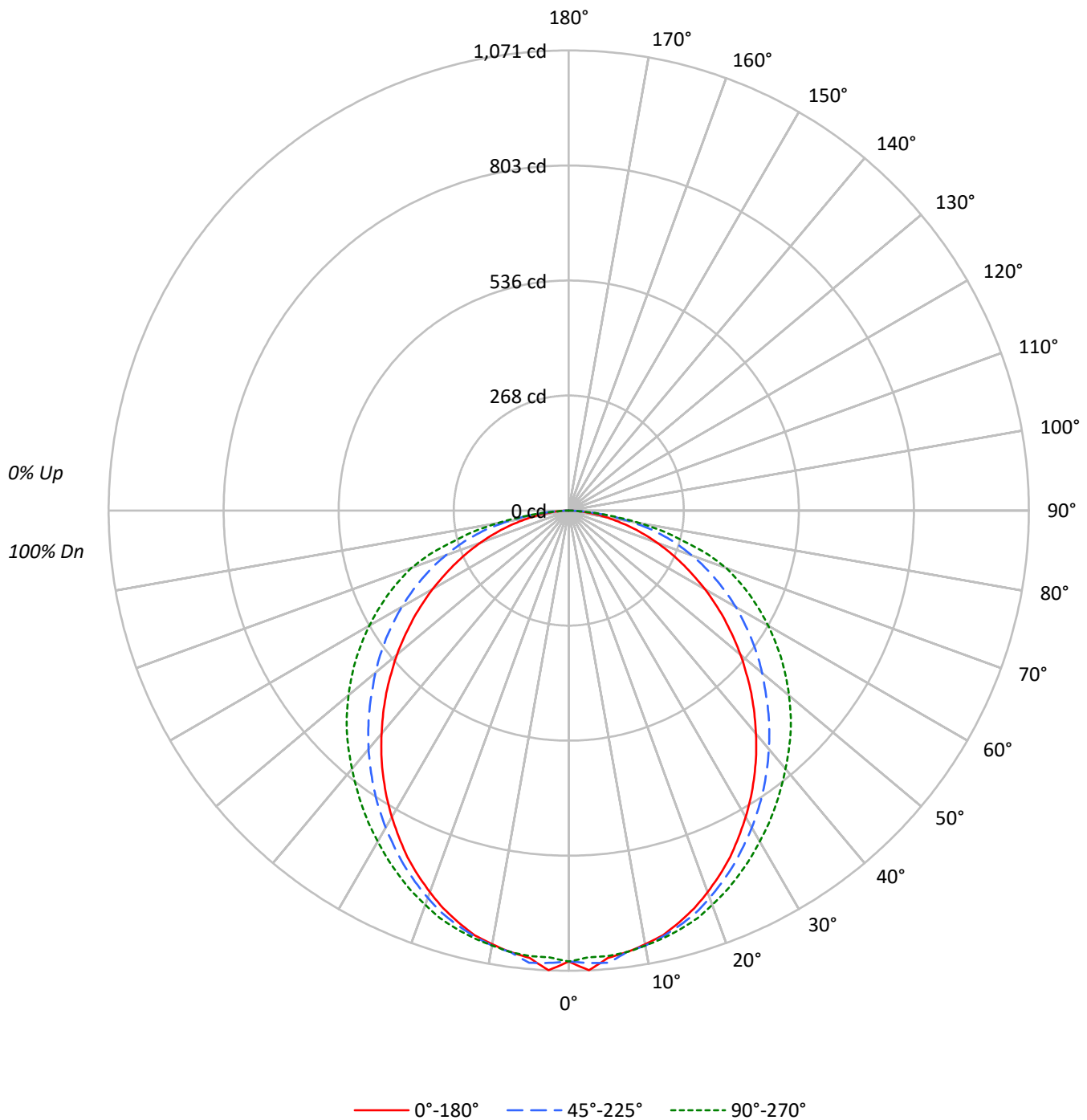
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2824	2824	2824
5°	2823	2854	2811
10°	2801	2809	2809
15°	2764	2784	2808
20°	2706	2747	2796
25°	2640	2700	2780
30°	2559	2648	2763
35°	2475	2597	2757
40°	2381	2546	2757
45°	2285	2497	2780
50°	2184	2460	2801
55°	2079	2435	2837
60°	1970	2416	2885
65°	1848	2403	2958
70°	1721	2396	3060
75°	1561	2393	2899
80°	1351	2216	2569
85°	1149	1677	1633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	3.4
10°-20°	281.9	9.6
20°-30°	419.4	14.3
30°-40°	496.0	16.9
40°-50°	509.8	17.3
50°-60°	465.8	15.8
60°-70°	372.7	12.7
70°-80°	233.9	8.0
80°-90°	60.9	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°	800.9	27.2
0°-40°	1296.9	44.1
0°-60°	2272.5	77.3
0°-90°	2940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1045	1045	1056	1049	1041	99
15°	992	994	999	1005	1008	279
25°	889	895	909	925	936	409
35°	753	763	791	821	839	471
45°	600	616	656	705	731	463
55°	443	465	519	576	605	396
65°	290	316	377	435	465	288
75°	150	179	230	264	279	159
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°	1049.4	1049.4	1049.4	1049.4	1049.4
2.5°	1070.8	1066.5	1053.7	1045.1	1040.8
5°	1045.1	1045.1	1056.5	1049.4	1040.8
7.5°	1036.5	1036.5	1036.5	1058.0	1036.5
10°	1025.1	1026.5	1027.9	1036.5	1027.9
12.5°	1012.2	1012.2	1015.1	1017.9	1019.4
15°	992.2	993.6	999.3	1005.1	1007.9
17.5°	970.8	975.0	982.2	989.3	995.1
20°	945.0	950.7	959.3	970.8	976.5
22.5°	917.9	923.6	935.0	947.9	957.9
25°	889.3	895.0	909.3	925.0	936.4
27.5°	856.4	863.5	880.7	902.1	913.6
30°	823.5	832.1	852.1	876.4	889.3
32.5°	789.2	799.2	822.1	849.2	865.0
35°	753.4	763.4	790.6	820.6	839.2
37.5°	716.3	727.7	757.7	792.0	812.1
40°	677.7	690.5	724.8	762.0	784.9
42.5°	639.1	653.4	690.5	734.9	757.7
45°	600.5	616.2	656.2	704.8	730.6
47.5°	560.4	579.0	620.5	674.8	700.5
50°	521.8	540.4	587.6	643.4	669.1
52.5°	481.8	503.2	553.3	610.5	637.6
55°	443.2	464.6	519.0	576.2	604.8
57.5°	404.6	426.0	483.2	541.8	570.4
60°	366.0	388.9	448.9	506.1	536.1
62.5°	327.4	351.7	413.2	471.8	500.4
65°	290.2	316.0	377.4	434.6	464.6
67.5°	254.5	281.6	341.7	397.5	427.5
70°	218.7	245.9	304.5	358.8	388.9
72.5°	184.4	211.6	268.8	317.4	340.3
75°	150.1	178.7	230.2	264.5	278.8
77.5°	117.2	145.8	190.1	213.0	228.7
80°	87.2	111.5	143.0	160.1	165.8
82.5°	60.0	80.1	100.1	104.4	107.2
85°	37.2	47.2	54.3	52.9	52.9
87.5°	17.2	18.6	15.7	11.4	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)