

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: P259464

Luminaire Tested: **22CZ-LD5-34-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259464
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-L82765-W2A1-U-3000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3309.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

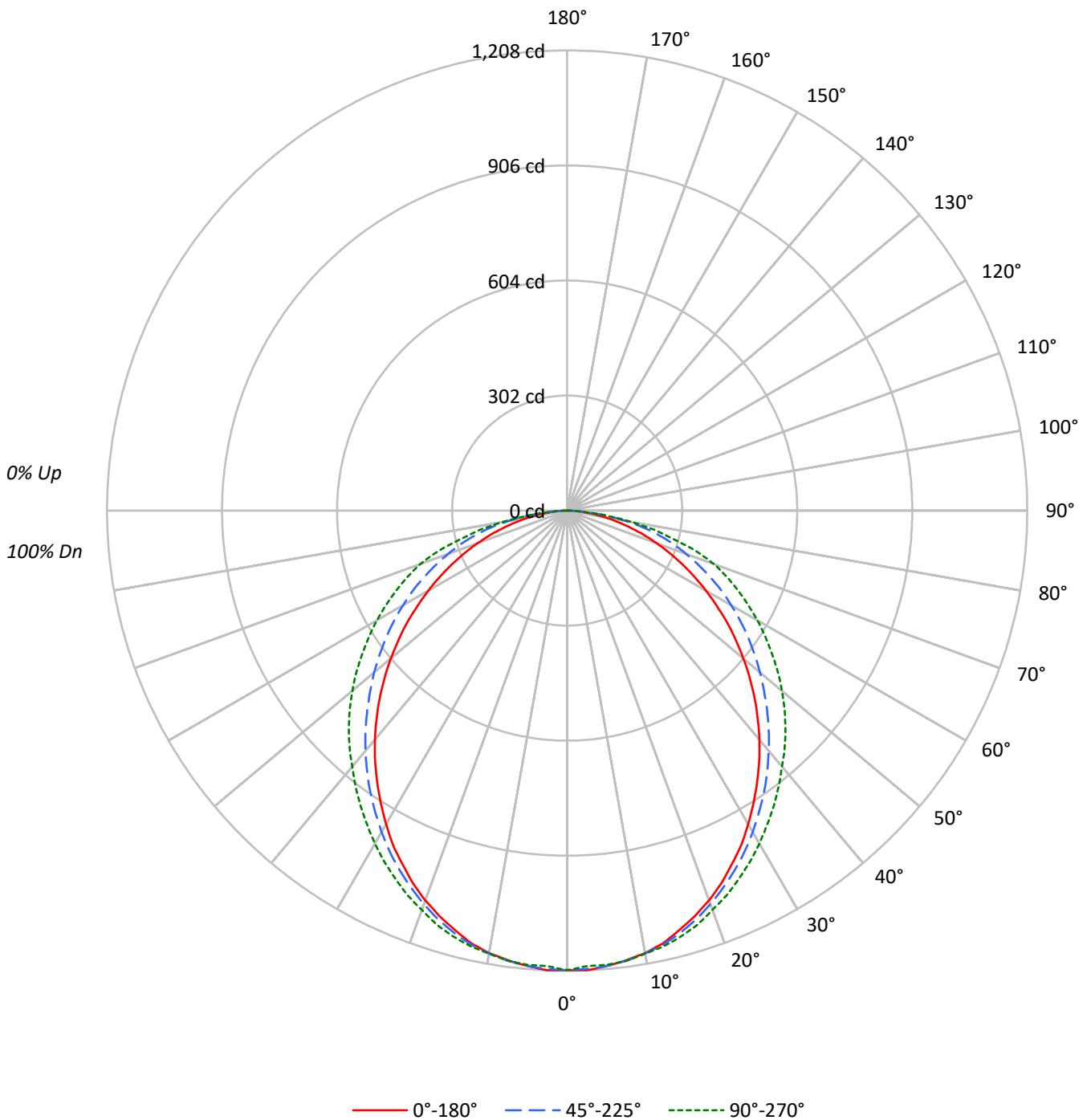
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3246	3246	3246
5°	3242	3242	3233
10°	3222	3227	3227
15°	3175	3197	3224
20°	3118	3149	3195
25°	3039	3091	3167
30°	2953	3027	3136
35°	2856	2961	3107
40°	2758	2892	3082
45°	2649	2825	3085
50°	2529	2768	3081
55°	2409	2722	3080
60°	2267	2678	3105
65°	2125	2641	3147
70°	1963	2614	3227
75°	1769	2594	2991
80°	1551	2414	2611
85°	1275	1815	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.4
10°-20°	323.6	9.8
20°-30°	480.6	14.5
30°-40°	565.8	17.1
40°-50°	576.8	17.4
50°-60°	520.2	15.7
60°-70°	409.7	12.4
70°-80°	252.7	7.6
80°-90°	65.6	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°	918.2	27.7
0°-40°	1483.9	44.8
0°-60°	2580.9	78.0
0°-90°	3309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1200	1202	1200	1198	1197	114
15°	1140	1144	1148	1154	1157	321
25°	1024	1030	1041	1058	1066	472
35°	869	879	901	930	946	544
45°	696	707	742	787	811	537
55°	513	531	580	633	656	458
65°	334	358	415	467	494	331
75°	170	199	250	278	288	181
85°	41	52	59	56	52	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.3	1206.3	1206.3	1206.3	1206.3
2.5°	1207.9	1207.9	1204.7	1201.6	1196.8
5°	1200.0	1201.6	1200.0	1198.4	1196.8
7.5°	1190.4	1192.0	1192.0	1192.0	1192.0
10°	1179.3	1180.9	1180.9	1180.9	1180.9
12.5°	1163.4	1165.0	1166.6	1168.2	1171.4
15°	1139.6	1144.3	1147.5	1153.9	1157.1
17.5°	1115.7	1120.5	1125.3	1133.2	1139.6
20°	1088.7	1091.9	1099.8	1109.4	1115.7
22.5°	1058.5	1063.3	1071.2	1083.9	1093.5
25°	1023.5	1029.9	1041.0	1058.5	1066.5
27.5°	990.2	994.9	1009.2	1028.3	1039.4
30°	950.4	956.8	974.3	998.1	1009.2
32.5°	910.7	918.7	937.7	964.7	977.5
35°	869.4	878.9	901.2	929.8	945.7
37.5°	828.1	837.6	863.0	894.8	912.3
40°	785.1	794.7	823.3	858.3	877.3
42.5°	740.6	751.8	783.6	823.3	845.5
45°	696.1	707.3	742.2	786.7	810.6
47.5°	650.0	662.8	700.9	750.2	774.0
50°	604.0	618.3	661.2	712.0	735.9
52.5°	557.9	573.8	619.9	672.3	697.7
55°	513.4	530.8	580.1	632.6	656.4
57.5°	465.7	486.3	538.8	589.7	616.7
60°	421.2	443.4	497.5	548.3	576.9
62.5°	376.7	400.5	457.7	508.6	535.6
65°	333.8	357.6	414.8	467.3	494.3
67.5°	290.9	317.9	373.5	425.9	453.0
70°	249.5	278.1	332.2	383.0	410.1
72.5°	209.8	238.4	292.4	340.1	356.0
75°	170.1	198.7	249.5	278.1	287.7
77.5°	133.5	160.5	205.0	222.5	235.2
80°	100.1	124.0	155.8	166.9	168.5
82.5°	68.3	89.0	108.1	109.7	108.1
85°	41.3	52.4	58.8	55.6	52.4
87.5°	19.1	20.7	19.1	12.7	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)