

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: P259392

Luminaire Tested: **22CZ-LD5-34-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259392
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-L83050-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3505.0 lumens
Efficiency: N/A
Efficacy: 136.6 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

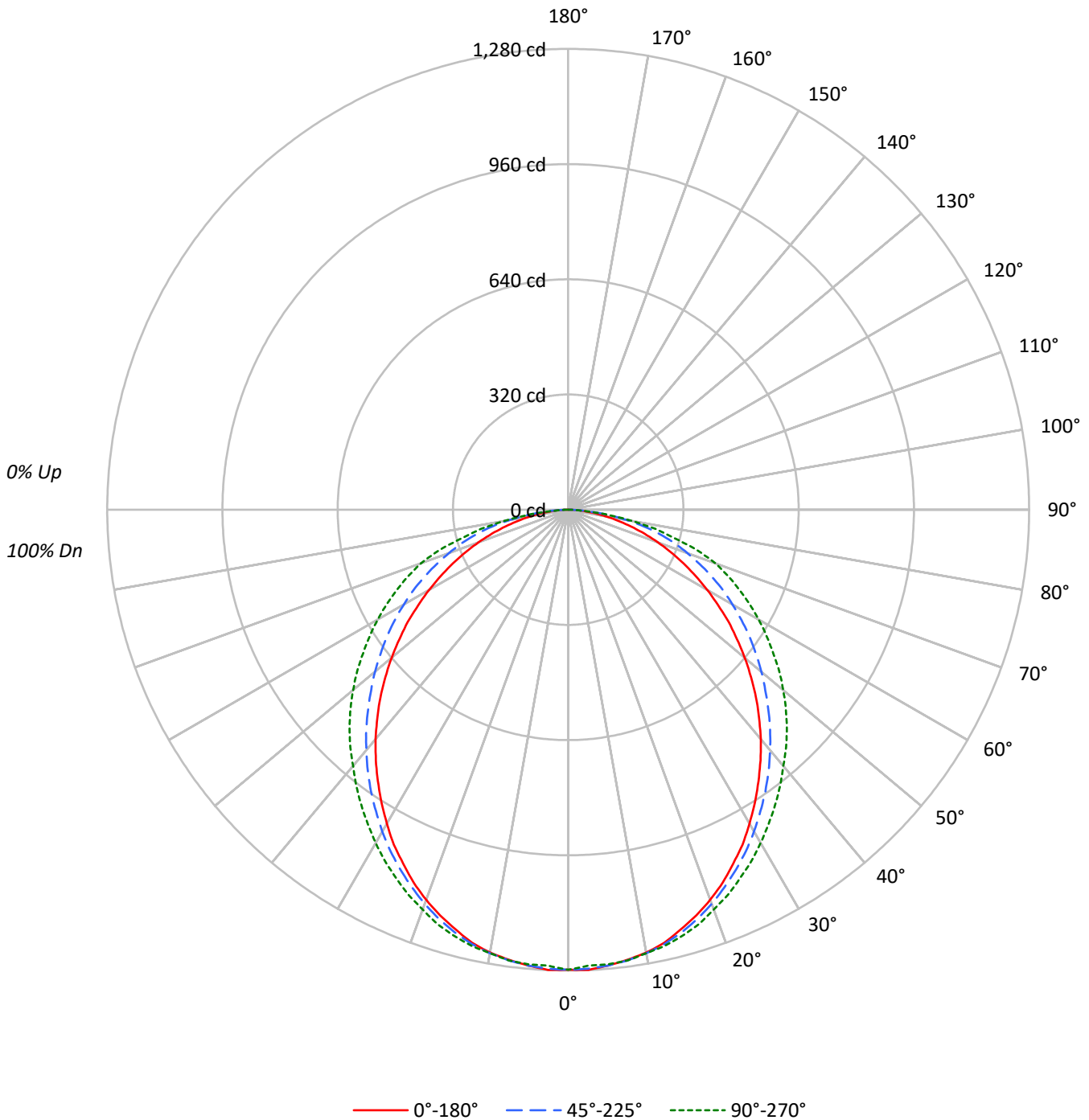
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3439	3439	3439
5°	3433	3433	3424
10°	3413	3418	3418
15°	3363	3386	3414
20°	3302	3336	3384
25°	3219	3274	3354
30°	3128	3207	3322
35°	3025	3136	3291
40°	2922	3064	3264
45°	2806	2992	3268
50°	2678	2932	3263
55°	2551	2883	3262
60°	2401	2836	3289
65°	2251	2798	3334
70°	2079	2769	3417
75°	1873	2748	3168
80°	1644	2557	2766
85°	1352	1924	1717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	3.4
10°-20°	342.8	9.8
20°-30°	509.1	14.5
30°-40°	599.3	17.1
40°-50°	610.9	17.4
50°-60°	551.0	15.7
60°-70°	434.0	12.4
70°-80°	267.7	7.6
80°-90°	69.5	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°	972.5	27.7
0°-40°	1571.8	44.8
0°-60°	2733.8	78.0
0°-90°	3505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1271	1273	1271	1269	1268	121
15°	1207	1212	1216	1222	1226	340
25°	1084	1091	1103	1121	1130	500
35°	921	931	954	985	1002	576
45°	737	749	786	833	859	568
55°	544	562	614	670	695	485
65°	354	379	439	495	524	350
75°	180	210	264	295	305	192
85°	44	56	62	59	56	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1277.8	1277.8	1277.8	1277.8	1277.8
2.5°	1279.5	1279.5	1276.1	1272.7	1267.7
5°	1271.0	1272.7	1271.0	1269.4	1267.7
7.5°	1260.9	1262.6	1262.6	1262.6	1262.6
10°	1249.2	1250.8	1250.8	1250.8	1250.8
12.5°	1232.3	1234.0	1235.7	1237.4	1240.7
15°	1207.1	1212.1	1215.5	1222.2	1225.6
17.5°	1181.8	1186.9	1191.9	1200.3	1207.1
20°	1153.2	1156.6	1165.0	1175.1	1181.8
22.5°	1121.2	1126.3	1134.7	1148.1	1158.3
25°	1084.2	1090.9	1102.7	1121.2	1129.6
27.5°	1048.8	1053.9	1069.0	1089.2	1101.0
30°	1006.7	1013.5	1032.0	1057.2	1069.0
32.5°	964.6	973.1	993.3	1021.9	1035.4
35°	920.9	931.0	954.5	984.9	1001.7
37.5°	877.1	887.2	914.1	947.8	966.3
40°	831.7	841.8	872.1	909.1	929.3
42.5°	784.5	796.3	830.0	872.1	895.6
45°	737.4	749.2	786.2	833.3	858.6
47.5°	688.6	702.0	742.4	794.6	819.9
50°	639.7	654.9	700.3	754.2	779.5
52.5°	590.9	607.7	656.6	712.1	739.1
55°	543.8	562.3	614.5	670.0	695.3
57.5°	493.3	515.2	570.7	624.6	653.2
60°	446.1	469.7	526.9	580.8	611.1
62.5°	399.0	424.2	484.8	538.7	567.3
65°	353.5	378.8	439.4	495.0	523.6
67.5°	308.1	336.7	395.6	451.2	479.8
70°	264.3	294.6	351.9	405.7	434.3
72.5°	222.2	252.5	309.8	360.3	377.1
75°	180.1	210.4	264.3	294.6	304.7
77.5°	141.4	170.0	217.2	235.7	249.2
80°	106.1	131.3	165.0	176.8	178.5
82.5°	72.4	94.3	114.5	116.2	114.5
85°	43.8	55.6	62.3	58.9	55.6
87.5°	20.2	21.9	20.2	13.5	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)