

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: P259467

Luminaire Tested: **22CZ-LD5-34-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259467
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-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3560.0 lumens
Efficiency: N/A
Efficacy: 136.2 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

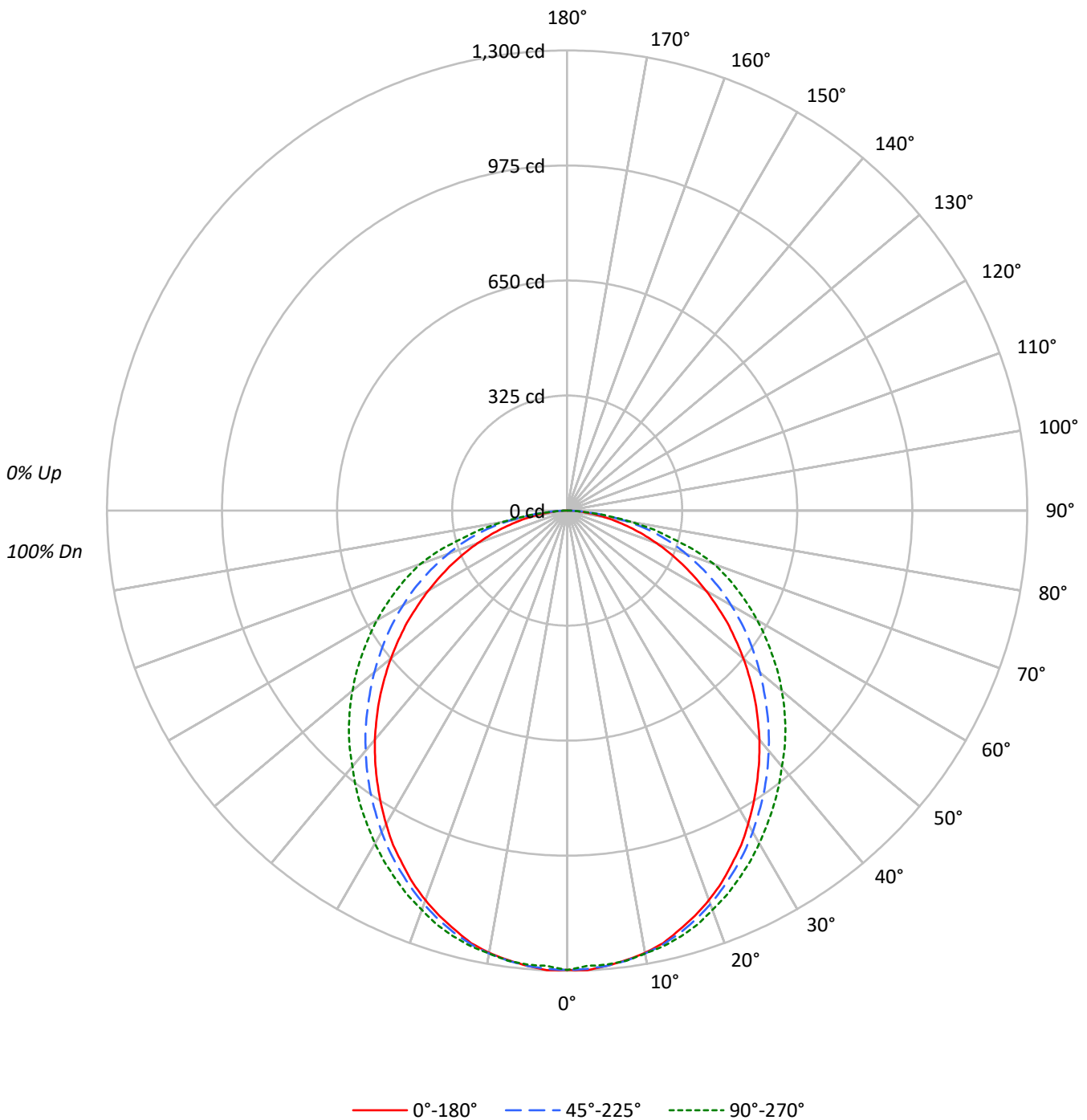
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3492	3492	3492
5°	3487	3487	3478
10°	3467	3472	3472
15°	3416	3439	3468
20°	3354	3389	3438
25°	3270	3325	3407
30°	3177	3257	3374
35°	3073	3185	3342
40°	2967	3111	3316
45°	2850	3039	3319
50°	2720	2978	3314
55°	2591	2928	3313
60°	2439	2880	3341
65°	2287	2842	3386
70°	2113	2812	3471
75°	1903	2792	3218
80°	1669	2597	2810
85°	1374	1954	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	3.4
10°-20°	348.2	9.8
20°-30°	517.1	14.5
30°-40°	608.7	17.1
40°-50°	620.5	17.4
50°-60°	559.7	15.7
60°-70°	440.8	12.4
70°-80°	271.9	7.6
80°-90°	70.6	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°	987.8	27.7
0°-40°	1596.5	44.8
0°-60°	2776.7	78.0
0°-90°	3560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1291	1293	1291	1289	1288	123
15°	1226	1231	1235	1241	1245	346
25°	1101	1108	1120	1139	1147	507
35°	935	946	970	1000	1017	585
45°	749	761	798	846	872	577
55°	552	571	624	680	706	493
65°	359	385	446	503	532	356
75°	183	214	268	299	310	195
85°	44	56	63	60	56	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.8	1297.8	1297.8	1297.8	1297.8
2.5°	1299.5	1299.5	1296.1	1292.7	1287.6
5°	1291.0	1292.7	1291.0	1289.3	1287.6
7.5°	1280.7	1282.4	1282.4	1282.4	1282.4
10°	1268.8	1270.5	1270.5	1270.5	1270.5
12.5°	1251.7	1253.4	1255.1	1256.8	1260.2
15°	1226.0	1231.1	1234.6	1241.4	1244.8
17.5°	1200.4	1205.5	1210.6	1219.2	1226.0
20°	1171.3	1174.7	1183.3	1193.5	1200.4
22.5°	1138.8	1143.9	1152.5	1166.2	1176.4
25°	1101.2	1108.0	1120.0	1138.8	1147.4
27.5°	1065.3	1070.4	1085.8	1106.3	1118.3
30°	1022.5	1029.4	1048.2	1073.8	1085.8
32.5°	979.8	988.3	1008.9	1037.9	1051.6
35°	935.3	945.6	969.5	1000.3	1017.4
37.5°	890.9	901.1	928.5	962.7	981.5
40°	844.7	855.0	885.7	923.4	943.9
42.5°	796.8	808.8	843.0	885.7	909.7
45°	748.9	760.9	798.5	846.4	872.1
47.5°	699.4	713.0	754.1	807.1	832.7
50°	649.8	665.2	711.3	766.0	791.7
52.5°	600.2	617.3	666.9	723.3	750.7
55°	552.3	571.1	624.1	680.5	706.2
57.5°	501.0	523.2	579.7	634.4	663.4
60°	453.1	477.1	535.2	589.9	620.7
62.5°	405.3	430.9	492.5	547.2	576.2
65°	359.1	384.7	446.3	502.7	531.8
67.5°	312.9	342.0	401.8	458.3	487.3
70°	268.5	299.2	357.4	412.1	441.2
72.5°	225.7	256.5	314.6	365.9	383.0
75°	183.0	213.7	268.5	299.2	309.5
77.5°	143.6	172.7	220.6	239.4	253.1
80°	107.7	133.4	167.6	179.5	181.3
82.5°	73.5	95.8	116.3	118.0	116.3
85°	44.5	56.4	63.3	59.8	56.4
87.5°	20.5	22.2	20.5	13.7	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)