

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: P258696

Luminaire Tested: **14CZ-LD5-44-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3554.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

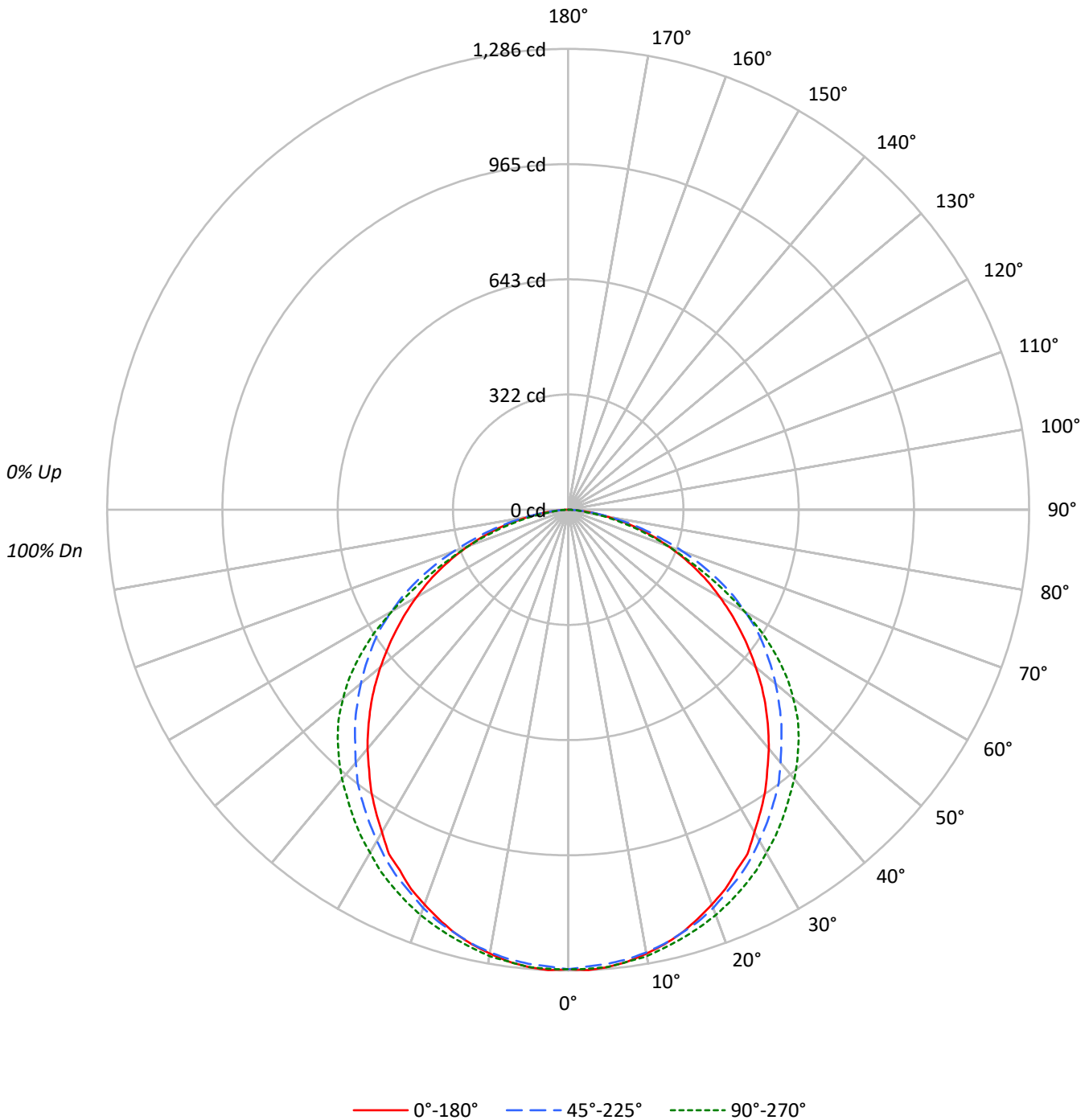
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3451	3451	3451
5°	3460	3436	3460
10°	3437	3428	3457
15°	3407	3407	3446
20°	3357	3387	3447
25°	3298	3355	3444
30°	3228	3315	3435
35°	3148	3281	3436
40°	3059	3237	3447
45°	2967	3201	3460
50°	2861	3162	3433
55°	2746	3132	3321
60°	2631	3064	3055
65°	2510	2934	2677
70°	2330	2674	2316
75°	2113	2332	1913
80°	1683	1846	1412
85°	1189	1028	812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	3.4
10°-20°	346.7	9.8
20°-30°	522.7	14.7
30°-40°	626.5	17.6
40°-50°	650.2	18.3
50°-60°	586.5	16.5
60°-70°	427.8	12.0
70°-80°	224.5	6.3
80°-90°	47.9	1.3
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°	990.7	27.9
0°-40°	1617.2	45.5
0°-60°	2853.9	80.3
0°-90°	3554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1281	1277	1272	1281	1281	122
15°	1223	1223	1223	1237	1237	344
25°	1111	1116	1130	1155	1160	513
35°	958	969	999	1036	1046	599
45°	780	796	841	892	909	601
55°	585	606	668	711	708	524
65°	394	417	461	443	420	390
75°	203	231	224	194	184	213
85°	38	47	33	28	26	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1282.5	1282.5	1282.5	1282.5	1282.5
2.5°	1286.0	1282.5	1275.5	1282.5	1282.5
5°	1280.8	1277.3	1272.0	1280.8	1280.8
7.5°	1272.0	1268.5	1265.0	1273.8	1272.0
10°	1258.0	1256.3	1254.5	1265.0	1265.0
12.5°	1242.2	1242.2	1240.5	1252.8	1251.0
15°	1223.0	1223.0	1223.0	1237.0	1237.0
17.5°	1198.4	1201.9	1205.4	1221.2	1221.2
20°	1172.2	1175.7	1182.7	1201.9	1203.7
22.5°	1145.9	1147.6	1154.6	1177.4	1182.7
25°	1110.8	1116.1	1130.1	1154.6	1159.9
27.5°	1082.8	1084.6	1100.3	1128.4	1135.4
30°	1039.0	1051.3	1067.0	1098.6	1105.6
32.5°	998.7	1009.2	1033.7	1067.0	1077.5
35°	958.4	968.9	998.7	1035.5	1046.0
37.5°	912.8	928.6	963.7	1000.4	1012.7
40°	870.8	884.8	921.6	967.2	981.2
42.5°	825.2	839.3	879.6	930.4	946.1
45°	779.7	795.5	841.0	891.8	909.3
47.5°	732.4	749.9	797.2	853.3	869.0
50°	683.3	702.6	755.2	813.0	820.0
52.5°	634.3	655.3	711.4	762.2	769.2
55°	585.2	606.2	667.6	711.4	707.8
57.5°	537.9	560.7	623.7	646.5	643.0
60°	488.8	513.4	569.4	579.9	567.7
62.5°	443.3	466.1	518.6	509.9	494.1
65°	394.2	417.0	460.8	443.3	420.5
67.5°	345.2	373.2	401.2	371.4	353.9
70°	296.1	327.6	339.9	310.1	294.4
72.5°	248.8	282.1	278.6	248.8	238.3
75°	203.2	231.3	224.3	194.5	184.0
77.5°	154.2	185.7	170.0	145.4	136.7
80°	108.6	136.7	119.1	98.1	91.1
82.5°	71.8	91.1	73.6	57.8	52.6
85°	38.5	47.3	33.3	28.0	26.3
87.5°	15.8	14.0	12.3	12.3	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)