

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: P258698

Luminaire Tested: **14CZ-LD5-44-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258698
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-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3852.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

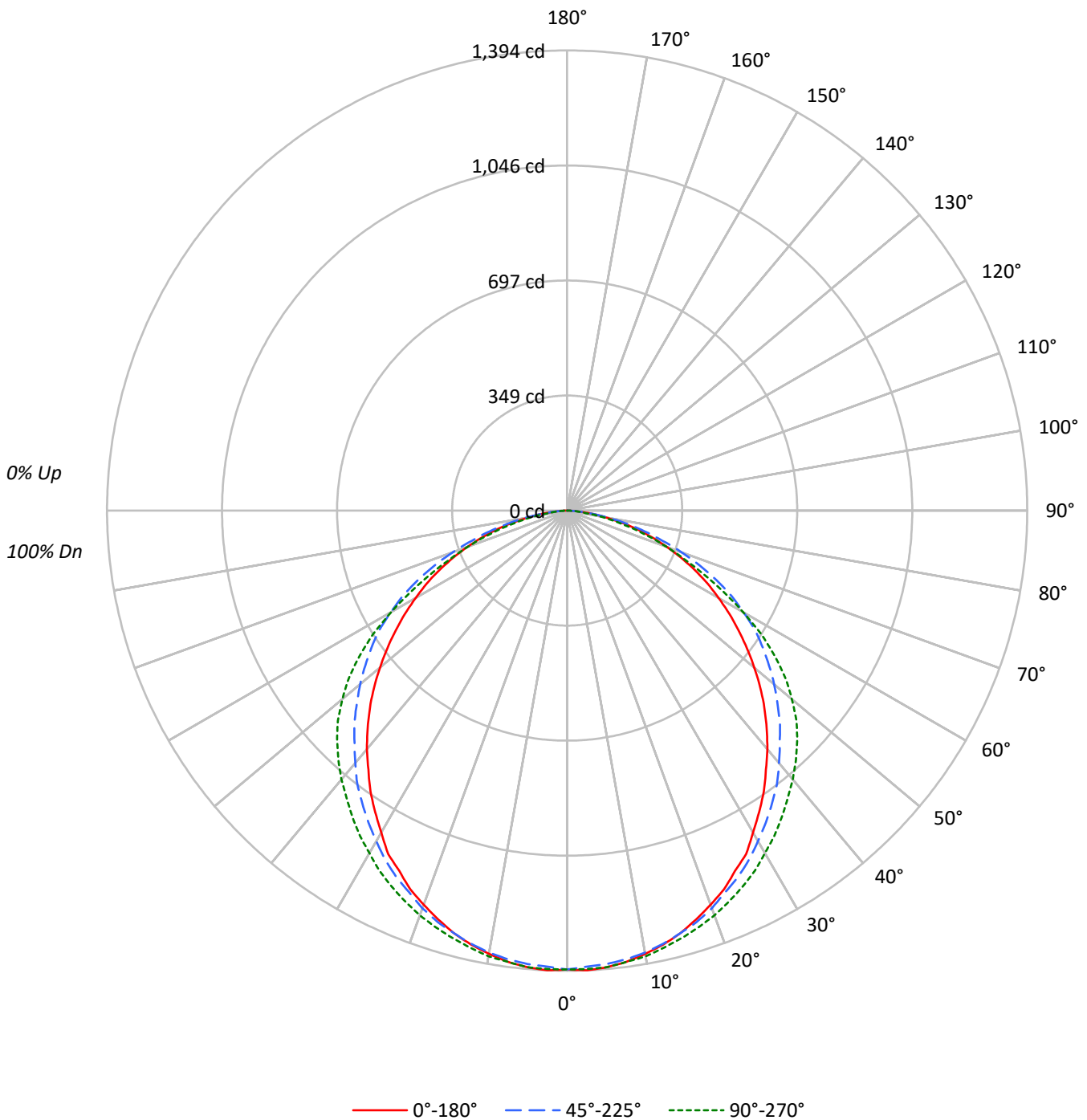
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3741	3741	3741
5°	3750	3724	3750
10°	3726	3715	3747
15°	3693	3693	3735
20°	3638	3671	3736
25°	3575	3637	3733
30°	3499	3594	3723
35°	3413	3556	3724
40°	3315	3509	3736
45°	3216	3469	3751
50°	3100	3427	3720
55°	2976	3394	3599
60°	2851	3322	3312
65°	2721	3180	2902
70°	2525	2899	2510
75°	2290	2528	2073
80°	1824	2001	1530
85°	1291	1115	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.4
10°-20°	375.7	9.8
20°-30°	566.5	14.7
30°-40°	679.1	17.6
40°-50°	704.7	18.3
50°-60°	635.6	16.5
60°-70°	463.7	12.0
70°-80°	243.3	6.3
80°-90°	51.9	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°	1073.8	27.9
0°-40°	1752.9	45.5
0°-60°	3093.2	80.3
0°-90°	3852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1388	1384	1379	1388	1388	132
15°	1326	1326	1326	1341	1341	373
25°	1204	1210	1225	1251	1257	556
35°	1039	1050	1082	1122	1134	649
45°	845	862	912	967	986	651
55°	634	657	724	771	767	568
65°	427	452	499	480	456	422
75°	220	251	243	211	199	231
85°	42	51	36	30	28	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.1	1390.1	1390.1	1390.1	1390.1
2.5°	1393.9	1390.1	1382.5	1390.1	1390.1
5°	1388.2	1384.4	1378.7	1388.2	1388.2
7.5°	1378.7	1374.9	1371.1	1380.6	1378.7
10°	1363.5	1361.6	1359.7	1371.1	1371.1
12.5°	1346.4	1346.4	1344.5	1357.8	1355.9
15°	1325.5	1325.5	1325.5	1340.7	1340.7
17.5°	1298.9	1302.7	1306.5	1323.6	1323.6
20°	1270.4	1274.2	1281.8	1302.7	1304.6
22.5°	1242.0	1243.9	1251.4	1276.1	1281.8
25°	1204.0	1209.7	1224.9	1251.4	1257.1
27.5°	1173.6	1175.5	1192.6	1223.0	1230.6
30°	1126.1	1139.4	1156.5	1190.7	1198.3
32.5°	1082.4	1093.8	1120.4	1156.5	1167.9
35°	1038.8	1050.2	1082.4	1122.3	1133.7
37.5°	989.4	1006.5	1044.5	1084.3	1097.6
40°	943.8	959.0	998.9	1048.3	1063.4
42.5°	894.4	909.6	953.3	1008.4	1025.5
45°	845.1	862.2	911.5	966.6	985.6
47.5°	793.8	812.8	864.1	924.8	941.9
50°	740.6	761.5	818.5	881.1	888.7
52.5°	687.4	710.2	771.0	826.1	833.7
55°	634.3	657.1	723.5	771.0	767.2
57.5°	583.0	607.7	676.0	700.7	696.9
60°	529.8	556.4	617.2	628.6	615.3
62.5°	480.5	505.1	562.1	552.6	535.5
65°	427.3	452.0	499.4	480.5	455.8
67.5°	374.1	404.5	434.9	402.6	383.6
70°	320.9	355.1	368.4	336.1	319.0
72.5°	269.7	305.7	301.9	269.7	258.3
75°	220.3	250.7	243.1	210.8	199.4
77.5°	167.1	201.3	184.2	157.6	148.1
80°	117.7	148.1	129.1	106.3	98.7
82.5°	77.9	98.7	79.8	62.7	57.0
85°	41.8	51.3	36.1	30.4	28.5
87.5°	17.1	15.2	13.3	13.3	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)