

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: P275661

Luminaire Tested: **14CZ2-44-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3987.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

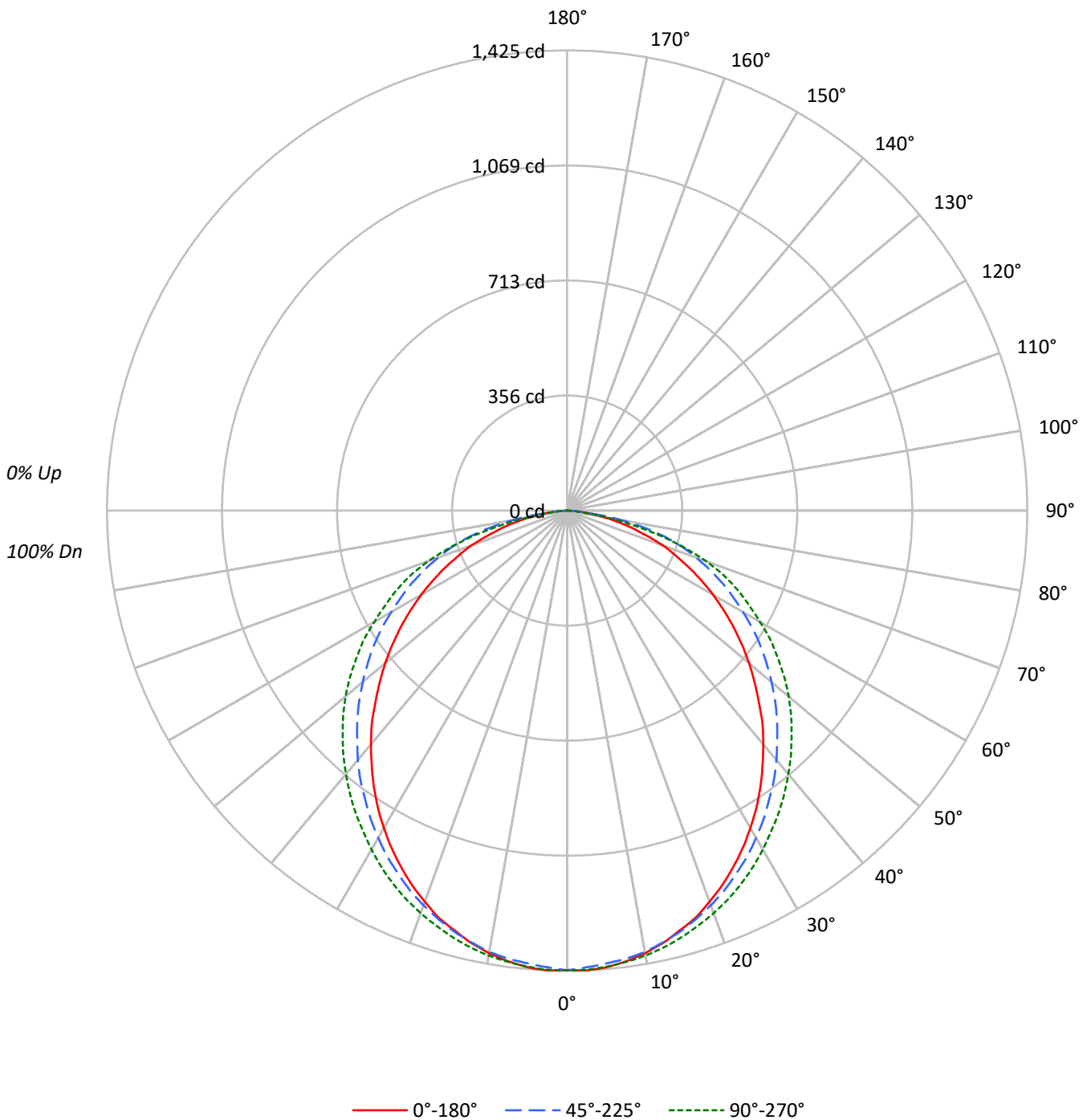
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	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	55	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	35	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	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3830	3830	3830
5°	3834	3802	3829
10°	3803	3792	3824
15°	3750	3762	3811
20°	3691	3725	3798
25°	3616	3680	3786
30°	3526	3636	3765
35°	3429	3585	3754
40°	3319	3542	3743
45°	3197	3498	3739
50°	3079	3459	3749
55°	2949	3431	3737
60°	2809	3383	3713
65°	2643	3373	3713
70°	2489	3344	3608
75°	2158	3268	3083
80°	1746	2634	2052
85°	1161	917	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	3.4
10°-20°	382.4	9.6
20°-30°	573.7	14.4
30°-40°	684.3	17.2
40°-50°	707.5	17.7
50°-60°	645.9	16.2
60°-70°	508.3	12.7
70°-80°	295.9	7.4
80°-90°	54.5	1.4
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°	1090.5	27.4
0°-40°	1774.9	44.5
0°-60°	3128.3	78.5
0°-90°	3987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1419	1415	1408	1419	1417	135
15°	1346	1348	1350	1368	1368	380
25°	1218	1224	1240	1269	1275	561
35°	1044	1058	1091	1133	1143	652
45°	840	868	919	971	982	649
55°	629	662	731	785	797	562
65°	415	459	530	571	583	412
75°	208	257	314	308	296	221
85°	38	53	30	24	20	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.3	1423.3	1423.3	1423.3	1423.3
2.5°	1425.3	1421.3	1415.4	1425.3	1423.3
5°	1419.3	1415.4	1407.5	1419.3	1417.4
7.5°	1407.5	1403.5	1399.6	1411.4	1409.5
10°	1391.7	1389.7	1387.7	1401.5	1399.6
12.5°	1371.9	1371.9	1369.9	1385.7	1385.7
15°	1346.2	1348.2	1350.2	1367.9	1367.9
17.5°	1322.5	1320.5	1326.4	1346.2	1348.2
20°	1288.9	1292.8	1300.7	1324.5	1326.4
22.5°	1255.3	1259.2	1273.1	1296.8	1302.7
25°	1217.7	1223.6	1239.5	1269.1	1275.0
27.5°	1178.2	1186.1	1207.8	1239.5	1245.4
30°	1134.7	1146.5	1170.3	1205.8	1211.8
32.5°	1091.2	1103.1	1132.7	1168.3	1176.2
35°	1043.7	1057.6	1091.2	1132.7	1142.6
37.5°	994.3	1012.1	1051.7	1093.2	1105.0
40°	944.9	964.7	1008.2	1051.7	1065.5
42.5°	895.5	915.3	962.7	1012.1	1026.0
45°	840.1	867.8	919.2	970.6	982.5
47.5°	786.8	816.4	873.7	925.1	941.0
50°	735.4	765.0	826.3	879.7	895.5
52.5°	682.0	713.6	778.9	834.2	848.0
55°	628.6	662.2	731.4	784.8	796.6
57.5°	575.2	610.8	682.0	733.4	747.2
60°	521.9	559.4	628.6	680.0	689.9
62.5°	468.5	508.0	579.2	624.7	634.6
65°	415.1	458.6	529.8	571.3	583.2
67.5°	363.7	407.2	476.4	515.9	525.8
70°	316.3	355.8	425.0	454.7	458.6
72.5°	257.0	306.4	373.6	389.4	379.5
75°	207.6	257.0	314.3	308.4	296.5
77.5°	158.1	207.6	245.1	225.4	209.5
80°	112.7	162.1	170.0	140.4	132.4
82.5°	73.1	112.7	94.9	73.1	59.3
85°	37.6	53.4	29.7	23.7	19.8
87.5°	11.9	7.9	4.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)