

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: P275718

Luminaire Tested: **14CZ2-44-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275718
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-L92765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3838.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

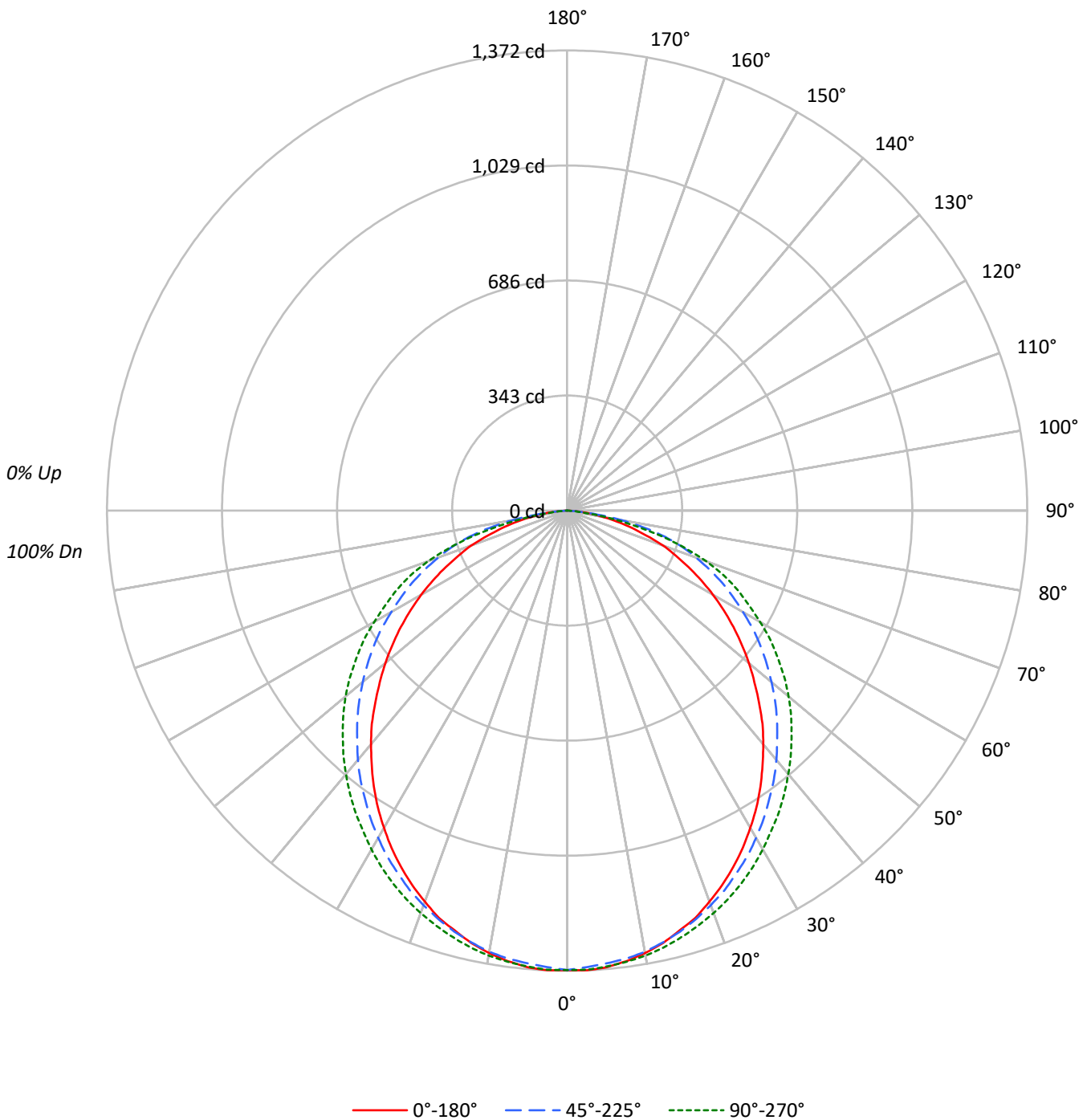
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3687	3687	3687
5°	3691	3660	3686
10°	3661	3650	3681
15°	3610	3621	3668
20°	3553	3586	3657
25°	3480	3543	3644
30°	3394	3500	3625
35°	3301	3451	3613
40°	3195	3409	3603
45°	3078	3368	3599
50°	2964	3330	3609
55°	2839	3303	3598
60°	2704	3257	3574
65°	2544	3247	3575
70°	2396	3219	3474
75°	2077	3146	2967
80°	1681	2537	1976
85°	1118	880	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	3.4
10°-20°	368.2	9.6
20°-30°	552.2	14.4
30°-40°	658.8	17.2
40°-50°	681.0	17.7
50°-60°	621.8	16.2
60°-70°	489.3	12.7
70°-80°	284.9	7.4
80°-90°	52.5	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°	1049.8	27.4
0°-40°	1708.5	44.5
0°-60°	3011.4	78.5
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1366	1362	1355	1366	1364	130
15°	1296	1298	1300	1317	1317	366
25°	1172	1178	1193	1222	1227	540
35°	1005	1018	1050	1090	1100	628
45°	809	835	885	934	946	625
55°	605	638	704	756	767	541
65°	400	442	510	550	561	397
75°	200	247	303	297	285	212
85°	36	51	28	23	19	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.1	1370.1	1370.1	1370.1	1370.1
2.5°	1372.0	1368.2	1362.5	1372.0	1370.1
5°	1366.3	1362.5	1354.9	1366.3	1364.4
7.5°	1354.9	1351.1	1347.3	1358.7	1356.8
10°	1339.7	1337.8	1335.8	1349.2	1347.3
12.5°	1320.6	1320.6	1318.7	1333.9	1333.9
15°	1295.9	1297.8	1299.7	1316.8	1316.8
17.5°	1273.1	1271.2	1276.9	1295.9	1297.8
20°	1240.7	1244.5	1252.1	1275.0	1276.9
22.5°	1208.4	1212.2	1225.5	1248.3	1254.0
25°	1172.2	1177.9	1193.1	1221.7	1227.4
27.5°	1134.1	1141.8	1162.7	1193.1	1198.8
30°	1092.3	1103.7	1126.5	1160.8	1166.5
32.5°	1050.4	1061.8	1090.4	1124.6	1132.2
35°	1004.7	1018.1	1050.4	1090.4	1099.9
37.5°	957.2	974.3	1012.4	1052.3	1063.7
40°	909.6	928.6	970.5	1012.4	1025.7
42.5°	862.0	881.1	926.7	974.3	987.6
45°	808.7	835.4	884.9	934.3	945.8
47.5°	757.4	785.9	841.1	890.6	905.8
50°	707.9	736.4	795.4	846.8	862.0
52.5°	656.5	687.0	749.8	803.0	816.4
55°	605.1	637.5	704.1	755.5	766.9
57.5°	553.7	588.0	656.5	706.0	719.3
60°	502.4	538.5	605.1	654.6	664.1
62.5°	451.0	489.1	557.6	601.3	610.8
65°	399.6	441.5	510.0	549.9	561.4
67.5°	350.1	392.0	458.6	496.7	506.2
70°	304.5	342.5	409.1	437.7	441.5
72.5°	247.4	295.0	359.7	374.9	365.4
75°	199.8	247.4	302.6	296.9	285.4
77.5°	152.2	199.8	236.0	216.9	201.7
80°	108.5	156.0	163.7	135.1	127.5
82.5°	70.4	108.5	91.3	70.4	57.1
85°	36.2	51.4	28.5	22.8	19.0
87.5°	11.4	7.6	3.8	3.8	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)