

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: P275720

Luminaire Tested: **14CZ2-44-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275720
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-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4016.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

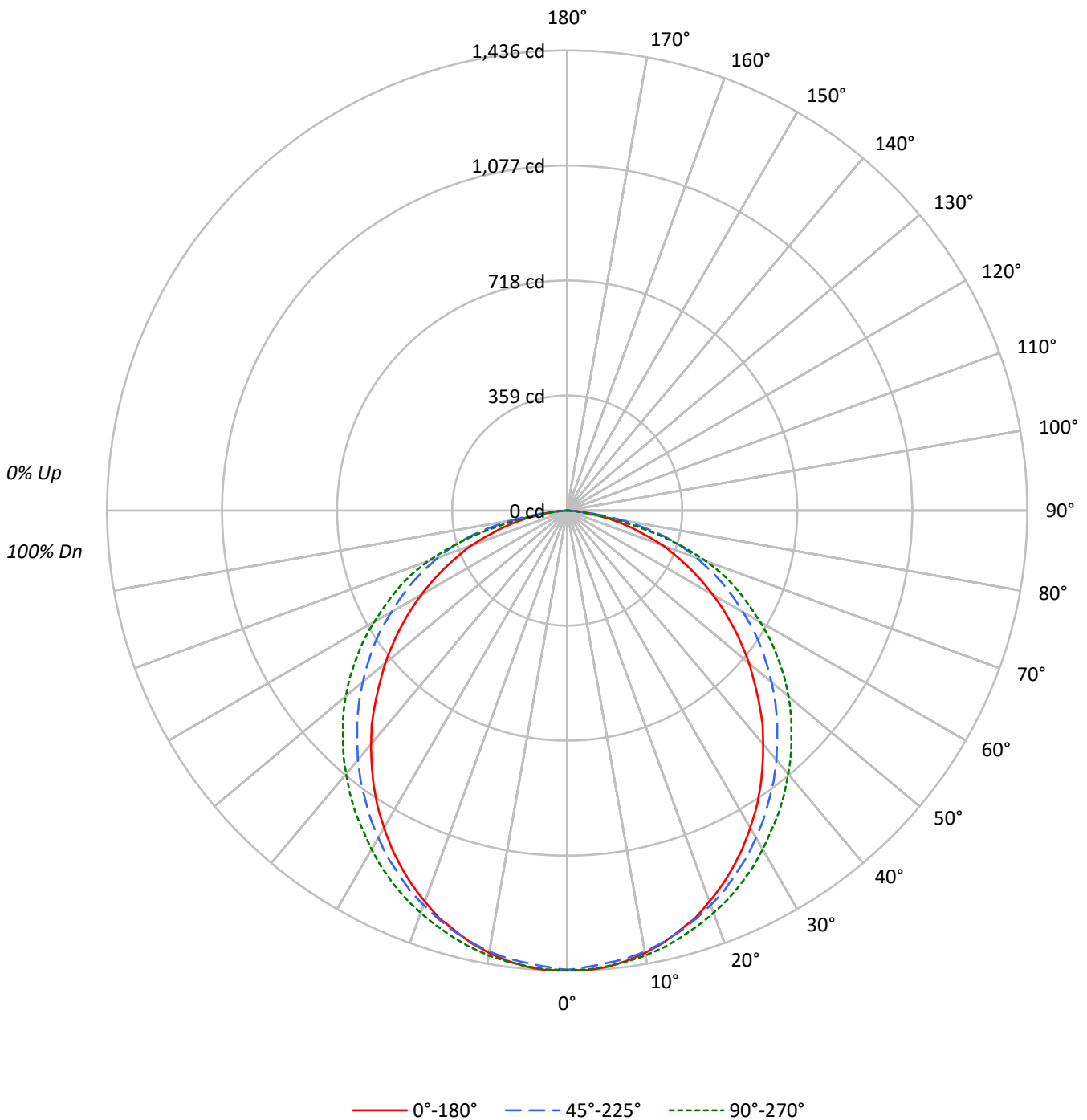
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3858	3858	3858
5°	3862	3830	3857
10°	3830	3819	3852
15°	3778	3789	3839
20°	3718	3752	3826
25°	3642	3707	3813
30°	3551	3663	3793
35°	3454	3611	3781
40°	3344	3567	3770
45°	3220	3524	3766
50°	3101	3484	3776
55°	2971	3456	3765
60°	2829	3408	3740
65°	2662	3398	3740
70°	2507	3368	3635
75°	2174	3292	3106
80°	1759	2653	2067
85°	1167	923	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.4
10°-20°	385.2	9.6
20°-30°	577.9	14.4
30°-40°	689.3	17.2
40°-50°	712.6	17.7
50°-60°	650.6	16.2
60°-70°	512.0	12.7
70°-80°	298.1	7.4
80°-90°	54.9	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°	1098.5	27.4
0°-40°	1787.8	44.5
0°-60°	3151.0	78.5
0°-90°	4016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1430	1426	1418	1430	1428	136
15°	1356	1358	1360	1378	1378	383
25°	1227	1232	1248	1278	1284	565
35°	1051	1065	1099	1141	1151	657
45°	846	874	926	978	990	653
55°	633	667	737	790	802	566
65°	418	462	534	575	587	415
75°	209	259	317	311	299	222
85°	38	54	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°	1433.6	1433.6	1433.6	1433.6	1433.6
2.5°	1435.6	1431.7	1425.7	1435.6	1433.6
5°	1429.7	1425.7	1417.7	1429.7	1427.7
7.5°	1417.7	1413.7	1409.8	1421.7	1419.7
10°	1401.8	1399.8	1397.8	1411.7	1409.8
12.5°	1381.9	1381.9	1379.9	1395.8	1395.8
15°	1356.0	1358.0	1360.0	1377.9	1377.9
17.5°	1332.1	1330.1	1336.1	1356.0	1358.0
20°	1298.2	1302.2	1310.2	1334.1	1336.1
22.5°	1264.4	1268.4	1282.3	1306.2	1312.2
25°	1226.6	1232.5	1248.5	1278.3	1284.3
27.5°	1186.7	1194.7	1216.6	1248.5	1254.4
30°	1142.9	1154.9	1178.8	1214.6	1220.6
32.5°	1099.1	1111.1	1140.9	1176.8	1184.7
35°	1051.3	1065.3	1099.1	1140.9	1150.9
37.5°	1001.6	1019.5	1059.3	1101.1	1113.1
40°	951.8	971.7	1015.5	1059.3	1073.2
42.5°	902.0	921.9	969.7	1019.5	1033.4
45°	846.2	874.1	925.9	977.7	989.6
47.5°	792.5	822.4	880.1	931.9	947.8
50°	740.7	770.6	832.3	886.1	902.0
52.5°	687.0	718.8	784.5	840.3	854.2
55°	633.2	667.0	736.7	790.5	802.4
57.5°	579.4	615.3	687.0	738.7	752.7
60°	525.7	563.5	633.2	685.0	694.9
62.5°	471.9	511.7	583.4	629.2	639.2
65°	418.1	462.0	533.6	575.4	587.4
67.5°	366.4	410.2	479.9	519.7	529.7
70°	318.6	358.4	428.1	458.0	462.0
72.5°	258.9	308.6	376.3	392.3	382.3
75°	209.1	258.9	316.6	310.6	298.7
77.5°	159.3	209.1	246.9	227.0	211.1
80°	113.5	163.3	171.2	141.4	133.4
82.5°	73.7	113.5	95.6	73.7	59.7
85°	37.8	53.8	29.9	23.9	19.9
87.5°	11.9	8.0	4.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)