

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: P275411

Luminaire Tested: **14CZ2-39-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4077.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

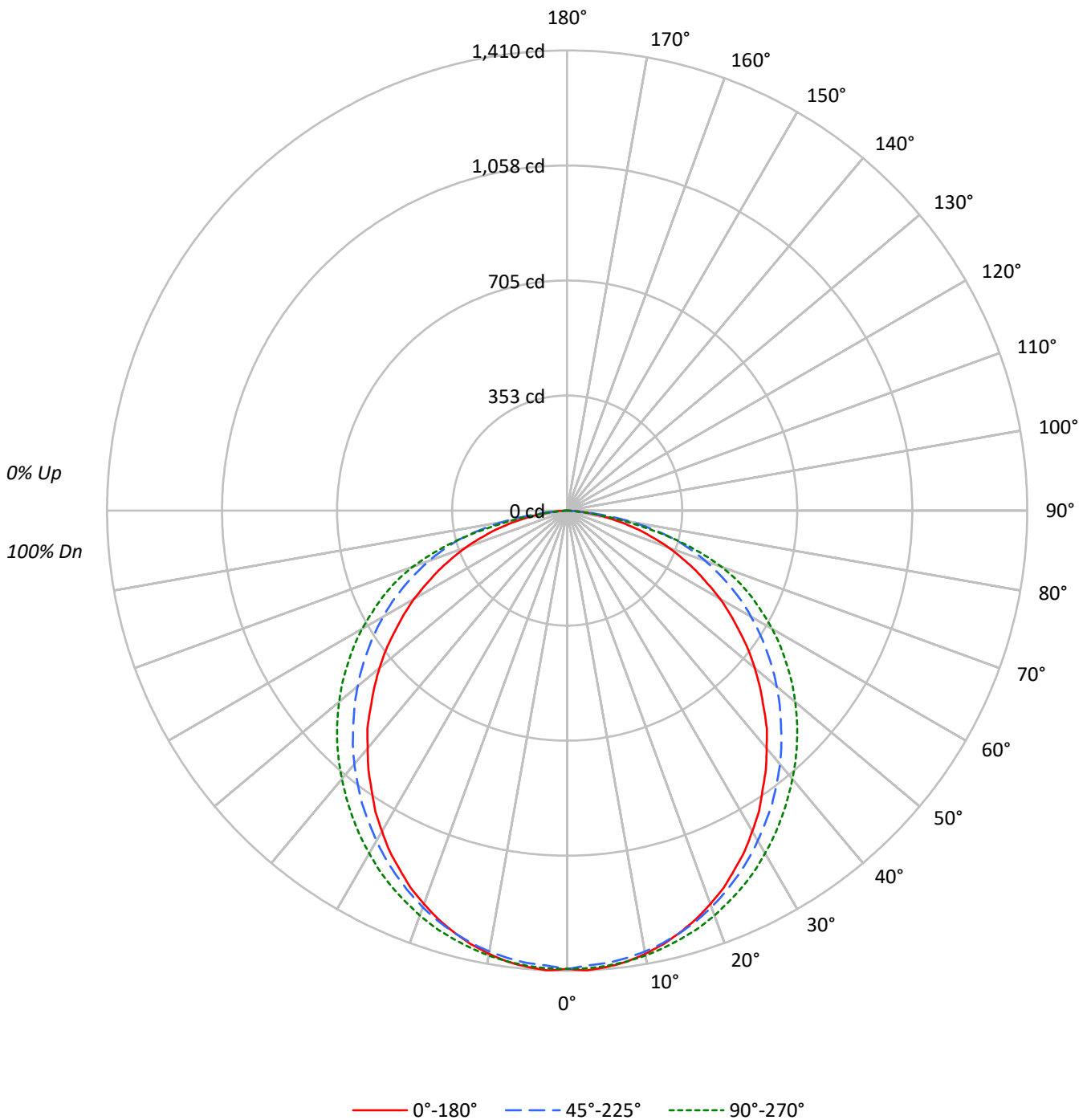
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275411

CATALOG NUMBER: 14CZ2-39-UNV-L83050-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P275411

CATALOG NUMBER: 14CZ2-39-UNV-L83050-W2A1-U-4500K

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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3779	3779	3779
5°	3791	3760	3782
10°	3768	3748	3783
15°	3728	3731	3781
20°	3673	3704	3780
25°	3603	3668	3776
30°	3525	3630	3768
35°	3431	3599	3766
40°	3340	3564	3771
45°	3238	3526	3792
50°	3144	3509	3817
55°	3024	3498	3851
60°	2916	3503	3905
65°	2767	3514	3965
70°	2596	3541	3962
75°	2354	3572	3582
80°	1929	3085	2549
85°	1433	1460	590



TEST NUMBER: P275411

CATALOG NUMBER: 14CZ2-39-UNV-L83050-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.3
10°-20°	379.7	9.3
20°-30°	571.9	14.0
30°-40°	686.3	16.8
40°-50°	715.3	17.5
50°-60°	662.2	16.2
60°-70°	535.1	13.1
70°-80°	326.2	8.0
80°-90°	67.4	1.7
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°	1084.5	26.6
0°-40°	1770.8	43.4
0°-60°	3148.4	77.2
0°-90°	4077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1404	1400	1392	1402	1400	133
15°	1338	1339	1339	1357	1357	377
25°	1214	1221	1235	1266	1272	559
35°	1044	1061	1096	1135	1146	654
45°	851	876	926	978	996	658
55°	644	678	746	804	821	577
65°	434	477	552	607	623	430
75°	226	276	344	349	344	238
85°	46	69	47	26	19	57
90°	0	0	0	0	0	



TEST NUMBER: P275411

CATALOG NUMBER: 14CZ2-39-UNV-L83050-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1410.0	1405.4	1395.4	1405.4	1403.6
5°	1403.6	1400.0	1391.8	1401.8	1400.0
7.5°	1394.5	1390.9	1383.6	1395.4	1393.6
10°	1379.1	1377.3	1371.8	1385.4	1384.5
12.5°	1360.9	1360.0	1357.3	1372.7	1371.8
15°	1338.2	1339.1	1339.1	1357.3	1357.3
17.5°	1312.7	1314.5	1318.2	1338.2	1340.9
20°	1282.7	1286.4	1293.6	1316.4	1320.0
22.5°	1251.8	1254.5	1265.4	1292.7	1296.4
25°	1213.6	1220.9	1235.4	1266.4	1271.8
27.5°	1177.3	1183.6	1203.6	1235.4	1244.5
30°	1134.5	1144.5	1168.2	1202.7	1212.7
32.5°	1093.6	1104.5	1131.8	1171.8	1180.9
35°	1044.5	1060.9	1095.5	1135.4	1146.4
37.5°	1000.0	1015.5	1054.5	1098.2	1110.9
40°	950.9	970.0	1014.5	1060.9	1073.6
42.5°	905.5	923.6	971.8	1019.1	1036.4
45°	850.9	876.4	926.4	978.2	996.4
47.5°	800.9	826.4	883.6	939.1	955.5
50°	750.9	778.2	838.2	895.5	911.8
52.5°	699.1	728.2	792.7	850.0	869.1
55°	644.5	678.2	745.5	803.6	820.9
57.5°	592.7	627.3	699.1	758.2	775.5
60°	541.8	577.3	650.9	707.3	725.5
62.5°	485.5	527.3	603.6	659.1	672.7
65°	434.5	477.3	551.8	607.3	622.7
67.5°	380.9	427.3	501.8	552.7	567.3
70°	330.0	378.2	450.0	497.3	503.6
72.5°	275.5	324.5	397.3	427.3	427.3
75°	226.4	276.4	343.6	349.1	344.5
77.5°	172.7	228.2	271.8	260.9	250.0
80°	124.5	179.1	199.1	179.1	164.5
82.5°	83.6	130.0	120.0	95.5	84.5
85°	46.4	69.1	47.3	26.4	19.1
87.5°	17.3	15.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)