

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: P275407

Luminaire Tested: **14CZ2-35-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275407
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: 14CZ2-35-UNV-L83050-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3695.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

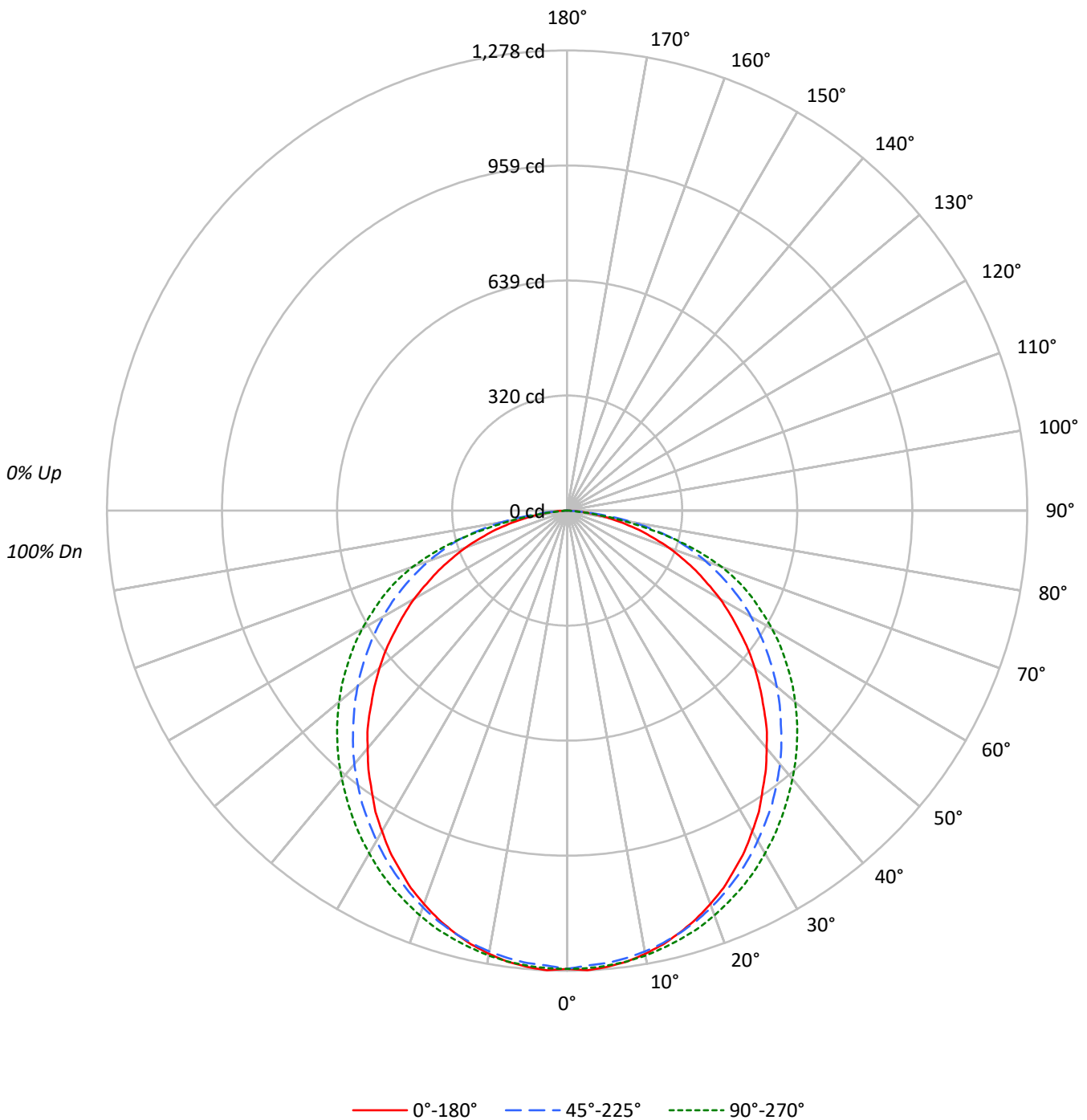
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275407

CATALOG NUMBER: 14CZ2-35-UNV-L83050-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P275407

CATALOG NUMBER: 14CZ2-35-UNV-L83050-W2A1-U-5000K

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°	3425	3425	3425
5°	3436	3407	3427
10°	3415	3397	3429
15°	3379	3381	3427
20°	3329	3357	3426
25°	3266	3325	3422
30°	3195	3290	3415
35°	3110	3261	3413
40°	3027	3230	3418
45°	2935	3195	3436
50°	2849	3180	3460
55°	2741	3170	3491
60°	2643	3175	3539
65°	2507	3184	3594
70°	2353	3209	3591
75°	2133	3238	3247
80°	1750	2796	2311
85°	1297	1321	534



TEST NUMBER: P275407

CATALOG NUMBER: 14CZ2-35-UNV-L83050-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	3.3
10°-20°	344.1	9.3
20°-30°	518.3	14.0
30°-40°	622.0	16.8
40°-50°	648.3	17.5
50°-60°	600.2	16.2
60°-70°	484.9	13.1
70°-80°	295.7	8.0
80°-90°	61.0	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°	982.9	26.6
0°-40°	1604.9	43.4
0°-60°	2853.4	77.2
0°-90°	3695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1272	1269	1261	1270	1269	121
15°	1213	1214	1214	1230	1230	342
25°	1100	1106	1120	1148	1153	507
35°	947	962	993	1029	1039	593
45°	771	794	840	886	903	596
55°	584	615	676	728	744	523
65°	394	433	500	550	564	389
75°	205	250	311	316	312	215
85°	42	63	43	24	17	52
90°	0	0	0	0	0	



TEST NUMBER: P275407

CATALOG NUMBER: 14CZ2-35-UNV-L83050-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.9	1272.9	1272.9	1272.9	1272.9
2.5°	1277.9	1273.8	1264.7	1273.8	1272.1
5°	1272.1	1268.8	1261.4	1270.5	1268.8
7.5°	1263.9	1260.6	1254.0	1264.7	1263.1
10°	1249.9	1248.2	1243.3	1255.6	1254.8
12.5°	1233.4	1232.6	1230.1	1244.1	1243.3
15°	1212.8	1213.6	1213.6	1230.1	1230.1
17.5°	1189.7	1191.4	1194.7	1212.8	1215.3
20°	1162.5	1165.8	1172.4	1193.0	1196.3
22.5°	1134.5	1137.0	1146.9	1171.6	1174.9
25°	1099.9	1106.5	1119.7	1147.7	1152.6
27.5°	1067.0	1072.7	1090.9	1119.7	1127.9
30°	1028.2	1037.3	1058.7	1090.0	1099.1
32.5°	991.2	1001.0	1025.8	1062.0	1070.3
35°	946.7	961.5	992.8	1029.1	1038.9
37.5°	906.3	920.3	955.7	995.3	1006.8
40°	861.8	879.1	919.5	961.5	973.0
42.5°	820.6	837.1	880.8	923.6	939.3
45°	771.2	794.2	839.6	886.5	903.0
47.5°	725.9	748.9	800.8	851.1	865.9
50°	680.5	705.3	759.6	811.6	826.4
52.5°	633.6	660.0	718.4	770.4	787.7
55°	584.2	614.6	675.6	728.3	744.0
57.5°	537.2	568.5	633.6	687.1	702.8
60°	491.0	523.2	589.9	641.0	657.5
62.5°	440.0	477.9	547.1	597.3	609.7
65°	393.8	432.6	500.1	550.4	564.4
67.5°	345.2	387.2	454.8	500.9	514.1
70°	299.1	342.7	407.8	450.7	456.4
72.5°	249.6	294.1	360.0	387.2	387.2
75°	205.2	250.5	311.4	316.4	312.3
77.5°	156.5	206.8	246.3	236.5	226.6
80°	112.9	162.3	180.4	162.3	149.1
82.5°	75.8	117.8	108.8	86.5	76.6
85°	42.0	62.6	42.8	23.9	17.3
87.5°	15.7	14.0	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)