

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: P275483

Luminaire Tested: **14CZ2-35-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275483
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-L82765-W2A1-U-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3643.0 lumens
Efficiency: N/A
Efficacy: 127.2 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

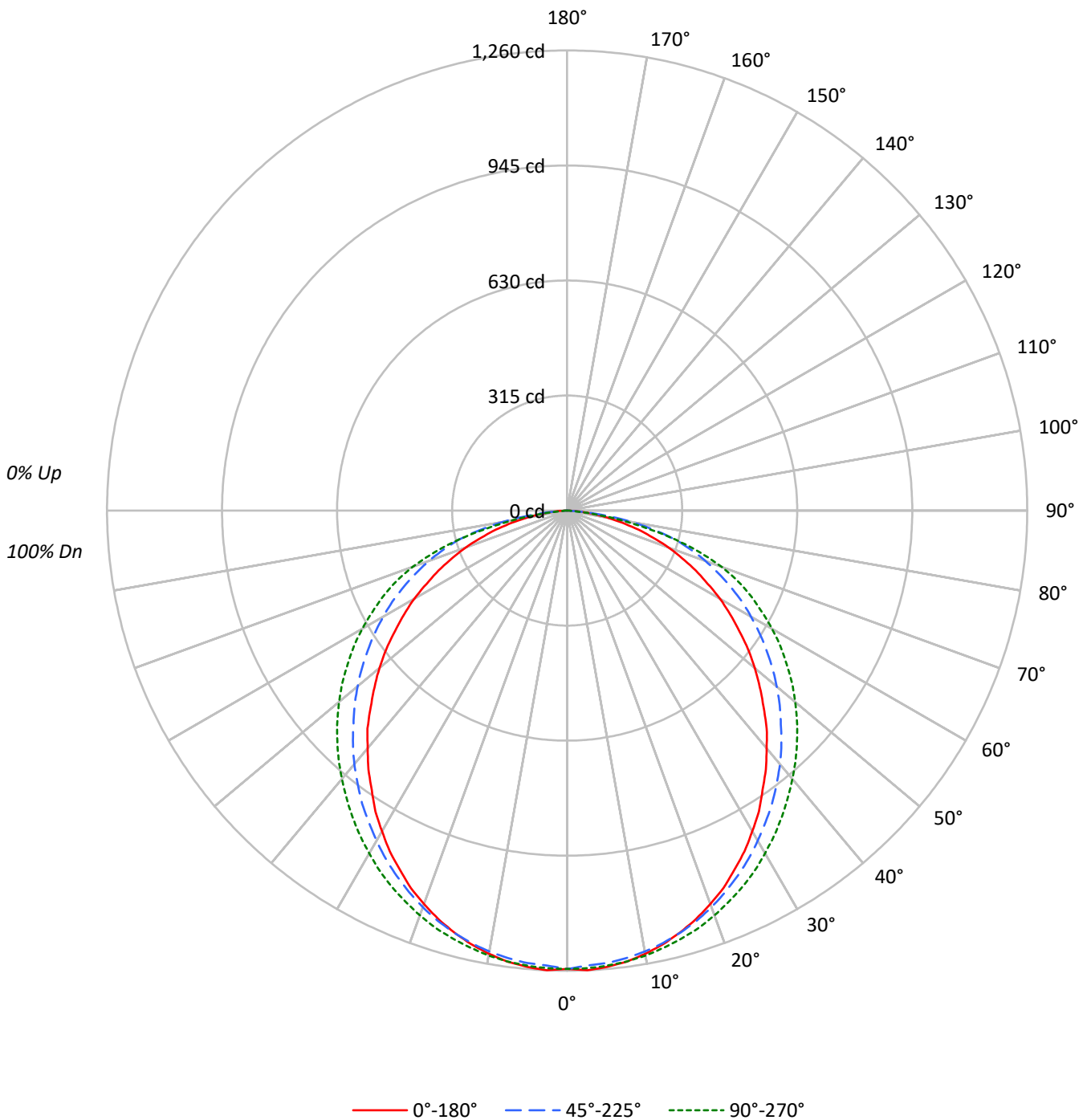
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3377	3377	3377
5°	3388	3360	3379
10°	3367	3349	3381
15°	3331	3333	3379
20°	3282	3310	3378
25°	3220	3278	3374
30°	3150	3243	3367
35°	3066	3215	3365
40°	2985	3184	3370
45°	2893	3150	3388
50°	2809	3136	3411
55°	2702	3125	3441
60°	2605	3130	3489
65°	2472	3140	3543
70°	2320	3164	3541
75°	2103	3193	3201
80°	1725	2757	2278
85°	1278	1303	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.3
10°-20°	339.2	9.3
20°-30°	511.0	14.0
30°-40°	613.3	16.8
40°-50°	639.2	17.5
50°-60°	591.7	16.2
60°-70°	478.1	13.1
70°-80°	291.5	8.0
80°-90°	60.2	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°	969.0	26.6
0°-40°	1582.3	43.4
0°-60°	2813.2	77.2
0°-90°	3643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1254	1251	1244	1253	1251	119
15°	1196	1196	1196	1213	1213	337
25°	1084	1091	1104	1132	1136	500
35°	933	948	979	1015	1024	585
45°	760	783	828	874	890	588
55°	576	606	666	718	734	516
65°	388	426	493	543	556	384
75°	202	247	307	312	308	212
85°	41	62	42	24	17	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1255.0	1255.0	1255.0	1255.0	1255.0
2.5°	1259.9	1255.8	1246.9	1255.8	1254.2
5°	1254.2	1251.0	1243.7	1252.6	1251.0
7.5°	1246.1	1242.8	1236.3	1246.9	1245.3
10°	1232.3	1230.7	1225.8	1238.0	1237.2
12.5°	1216.0	1215.2	1212.8	1226.6	1225.8
15°	1195.7	1196.5	1196.5	1212.8	1212.8
17.5°	1173.0	1174.6	1177.9	1195.7	1198.2
20°	1146.2	1149.4	1155.9	1176.2	1179.5
22.5°	1118.6	1121.0	1130.7	1155.1	1158.4
25°	1084.4	1090.9	1103.9	1131.6	1136.4
27.5°	1051.9	1057.6	1075.5	1103.9	1112.1
30°	1013.8	1022.7	1043.8	1074.7	1083.6
32.5°	977.2	987.0	1011.3	1047.1	1055.2
35°	933.3	948.0	978.8	1014.6	1024.3
37.5°	893.5	907.4	942.3	981.3	992.6
40°	849.7	866.7	906.5	948.0	959.3
42.5°	809.1	825.3	868.4	910.6	926.0
45°	760.3	783.1	827.7	874.1	890.3
47.5°	715.6	738.4	789.6	839.1	853.7
50°	671.0	695.3	749.0	800.1	814.8
52.5°	624.7	650.7	708.3	759.5	776.6
55°	575.9	606.0	666.1	718.1	733.5
57.5°	529.6	560.5	624.7	677.5	692.9
60°	484.1	515.8	581.6	632.0	648.2
62.5°	433.8	471.1	539.4	588.9	601.1
65°	388.3	426.5	493.1	542.6	556.4
67.5°	340.4	381.8	448.4	493.9	506.9
70°	294.9	337.9	402.1	444.3	450.0
72.5°	246.1	290.0	355.0	381.8	381.8
75°	202.3	246.9	307.1	311.9	307.9
77.5°	154.3	203.9	242.9	233.1	223.4
80°	111.3	160.0	177.9	160.0	147.0
82.5°	74.7	116.2	107.2	85.3	75.5
85°	41.4	61.7	42.2	23.6	17.1
87.5°	15.4	13.8	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)