

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: P275481

Luminaire Tested: **14CZ2-35-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275481
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-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3625.0 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

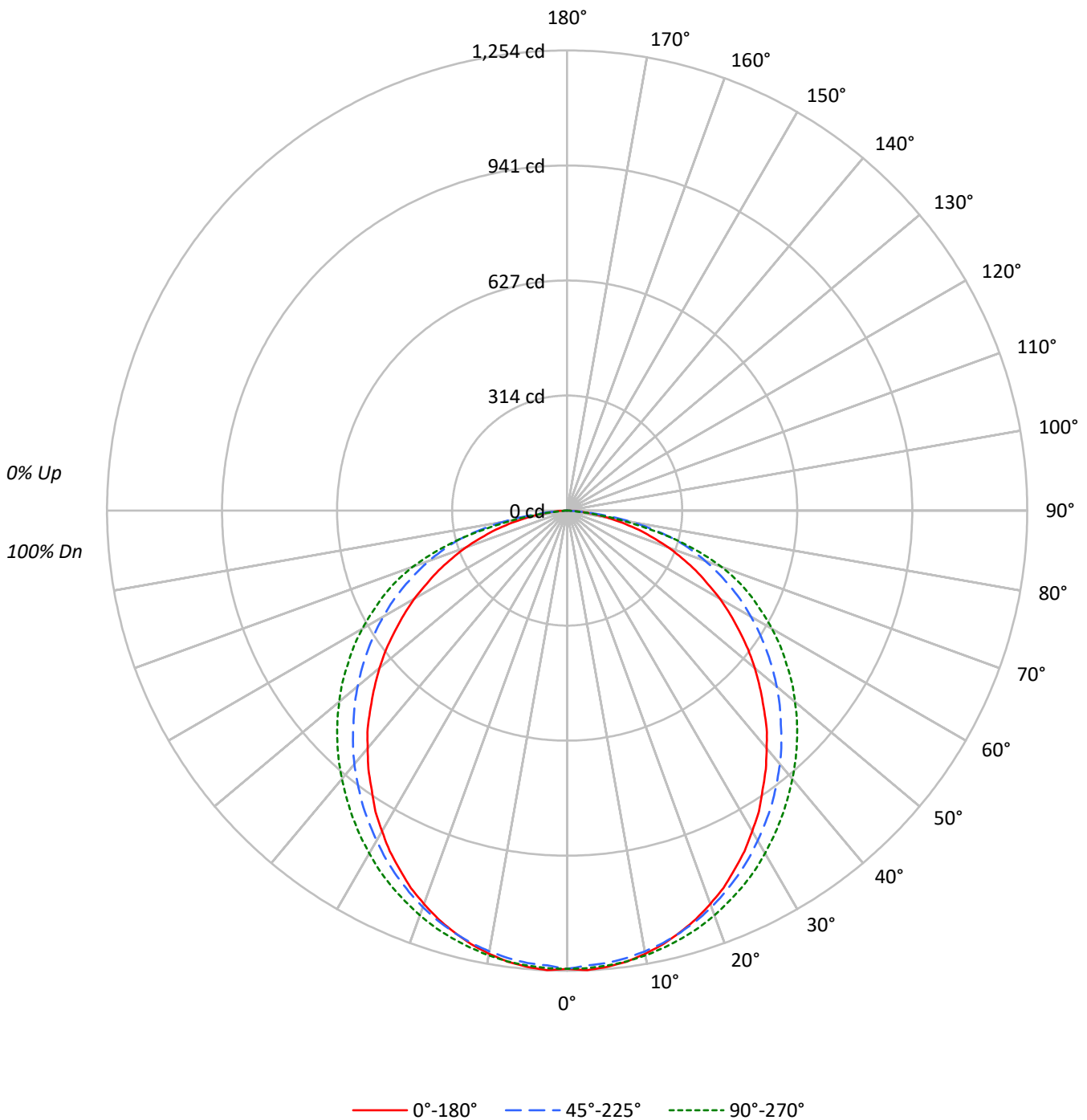
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275481

CATALOG NUMBER: 14CZ2-35-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P275481

CATALOG NUMBER: 14CZ2-35-UNV-L82765-W2A1-U-5500K

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°	3360	3360	3360
5°	3371	3343	3363
10°	3351	3333	3364
15°	3315	3317	3362
20°	3266	3294	3361
25°	3204	3262	3358
30°	3135	3228	3351
35°	3051	3200	3348
40°	2970	3169	3353
45°	2879	3135	3371
50°	2795	3120	3394
55°	2689	3110	3424
60°	2592	3115	3471
65°	2460	3124	3526
70°	2308	3148	3523
75°	2093	3176	3185
80°	1715	2743	2267
85°	1272	1297	525



TEST NUMBER: P275481

CATALOG NUMBER: 14CZ2-35-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.3
10°-20°	337.6	9.3
20°-30°	508.5	14.0
30°-40°	610.2	16.8
40°-50°	636.0	17.5
50°-60°	588.8	16.2
60°-70°	475.7	13.1
70°-80°	290.1	8.0
80°-90°	59.9	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°	964.3	26.6
0°-40°	1574.5	43.4
0°-60°	2799.3	77.2
0°-90°	3625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1248	1245	1238	1246	1245	118
15°	1190	1191	1191	1207	1207	335
25°	1079	1086	1098	1126	1131	497
35°	929	943	974	1010	1019	582
45°	757	779	824	870	886	585
55°	573	603	663	714	730	513
65°	386	424	491	540	554	382
75°	201	246	306	310	306	211
85°	41	61	42	23	17	51
90°	0	0	0	0	0	



TEST NUMBER: P275481

CATALOG NUMBER: 14CZ2-35-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1248.8	1248.8	1248.8	1248.8	1248.8
2.5°	1253.7	1249.6	1240.7	1249.6	1248.0
5°	1248.0	1244.8	1237.5	1246.4	1244.8
7.5°	1239.9	1236.7	1230.2	1240.7	1239.1
10°	1226.2	1224.6	1219.7	1231.8	1231.0
12.5°	1210.0	1209.2	1206.8	1220.5	1219.7
15°	1189.8	1190.6	1190.6	1206.8	1206.8
17.5°	1167.2	1168.8	1172.0	1189.8	1192.2
20°	1140.5	1143.7	1150.2	1170.4	1173.7
22.5°	1113.0	1115.5	1125.2	1149.4	1152.6
25°	1079.1	1085.5	1098.5	1126.0	1130.8
27.5°	1046.7	1052.4	1070.2	1098.5	1106.6
30°	1008.8	1017.7	1038.7	1069.4	1078.3
32.5°	972.4	982.1	1006.3	1041.9	1050.0
35°	928.7	943.3	974.0	1009.6	1019.3
37.5°	889.1	902.9	937.6	976.4	987.7
40°	845.5	862.5	902.1	943.3	954.6
42.5°	805.1	821.2	864.1	906.1	921.5
45°	756.6	779.2	823.7	869.7	885.9
47.5°	712.1	734.7	785.7	835.0	849.5
50°	667.7	691.9	745.3	796.2	810.7
52.5°	621.6	647.4	704.8	755.8	772.7
55°	573.1	603.0	662.8	714.5	729.9
57.5°	527.0	557.7	621.6	674.1	689.5
60°	481.7	513.3	578.7	628.9	645.0
62.5°	431.6	468.8	536.7	586.0	598.1
65°	386.4	424.4	490.6	539.9	553.7
67.5°	338.7	379.9	446.2	491.4	504.4
70°	293.4	336.3	400.1	442.1	447.8
72.5°	244.9	288.6	353.2	379.9	379.9
75°	201.3	245.7	305.5	310.4	306.3
77.5°	153.6	202.9	241.7	232.0	222.3
80°	110.7	159.2	177.0	159.2	146.3
82.5°	74.4	115.6	106.7	84.9	75.2
85°	41.2	61.4	42.0	23.4	17.0
87.5°	15.4	13.7	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)