

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: P475344

Luminaire Tested: **14CZ2-35-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475344
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-UNV-L830-CD1-U
Description: 1'X4' TROFFER LED MODULE, RIBBED LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3569.4 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.29 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

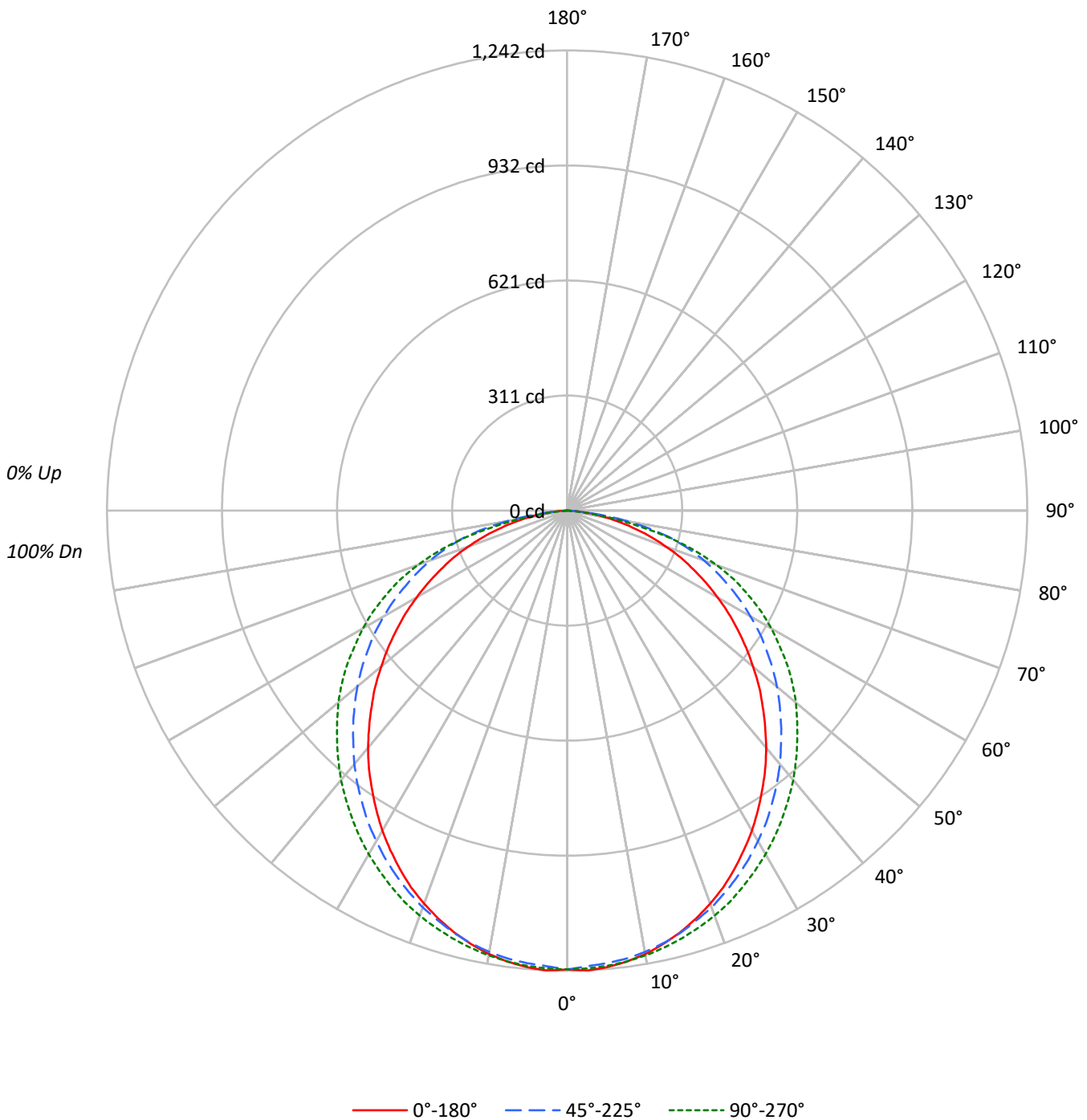
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3332	3332	3332
5°	3342	3313	3332
10°	3322	3305	3331
15°	3283	3288	3330
20°	3233	3263	3332
25°	3171	3233	3329
30°	3099	3201	3328
35°	3017	3168	3327
40°	2936	3138	3335
45°	2840	3108	3342
50°	2743	3094	3374
55°	2639	3080	3403
60°	2523	3076	3427
65°	2395	3068	3434
70°	2230	3086	3368
75°	1976	3046	3021
80°	1658	2548	2056
85°	1164	997	241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.3
10°-20°	334.4	9.4
20°-30°	503.8	14.1
30°-40°	604.8	16.9
40°-50°	629.6	17.6
50°-60°	581.8	16.3
60°-70°	466.0	13.1
70°-80°	278.8	7.8
80°-90°	53.2	1.5
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°	955.3	26.8
0°-40°	1560.1	43.7
0°-60°	2771.5	77.6
0°-90°	3569.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3569.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1237	1234	1226	1235	1234	117
15°	1178	1178	1180	1195	1195	332
25°	1068	1074	1089	1116	1121	492
35°	918	932	964	1003	1013	575
45°	746	768	817	865	878	576
55°	563	593	656	707	725	503
65°	376	415	482	529	539	373
75°	190	238	293	297	291	203
85°	38	55	32	13	8	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1238.3	1238.3	1238.3	1238.3	1238.3
2.5°	1242.5	1238.9	1231.1	1238.9	1237.1
5°	1237.1	1234.1	1226.3	1235.3	1233.5
7.5°	1228.1	1225.7	1219.7	1229.3	1227.5
10°	1215.6	1213.8	1209.6	1220.3	1219.1
12.5°	1198.2	1198.8	1196.4	1209.6	1208.4
15°	1178.5	1178.5	1180.3	1195.2	1195.2
17.5°	1155.2	1156.4	1159.9	1179.7	1180.3
20°	1128.9	1131.8	1139.6	1159.9	1163.5
22.5°	1100.8	1104.3	1115.1	1139.0	1144.4
25°	1067.9	1073.9	1088.8	1116.3	1121.1
27.5°	1033.2	1042.2	1060.7	1090.6	1096.6
30°	997.3	1006.9	1030.2	1062.5	1070.9
32.5°	958.5	971.0	999.1	1033.2	1042.8
35°	918.4	932.1	964.4	1002.7	1012.9
37.5°	878.3	893.3	929.8	971.0	981.2
40°	835.9	853.2	893.3	935.7	949.5
42.5°	791.0	810.2	854.4	901.1	914.2
45°	746.2	768.3	816.7	865.2	878.3
47.5°	702.5	725.3	777.9	828.1	841.9
50°	655.3	681.6	739.0	788.6	806.0
52.5°	609.3	638.6	699.0	749.2	766.5
55°	562.6	593.1	656.5	707.3	725.3
57.5°	517.2	549.5	616.4	666.7	679.2
60°	468.8	504.0	571.6	622.4	636.8
62.5°	423.3	459.8	528.0	577.0	590.7
65°	376.1	415.0	481.9	529.2	539.3
67.5°	331.8	370.7	438.3	478.9	489.1
70°	283.4	326.5	392.2	426.9	428.1
72.5°	237.4	281.0	345.0	367.1	364.1
75°	190.1	238.0	293.0	297.2	290.6
77.5°	147.7	195.5	233.2	220.0	206.9
80°	107.0	153.7	164.4	144.1	132.7
82.5°	70.6	107.6	99.3	71.2	61.0
85°	37.7	55.0	32.3	13.2	7.8
87.5°	14.3	9.6	3.6	3.0	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)