

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: P275405

Luminaire Tested: **14CZ2-35-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275405
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-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3660.0 lumens
Efficiency: N/A
Efficacy: 130.3 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

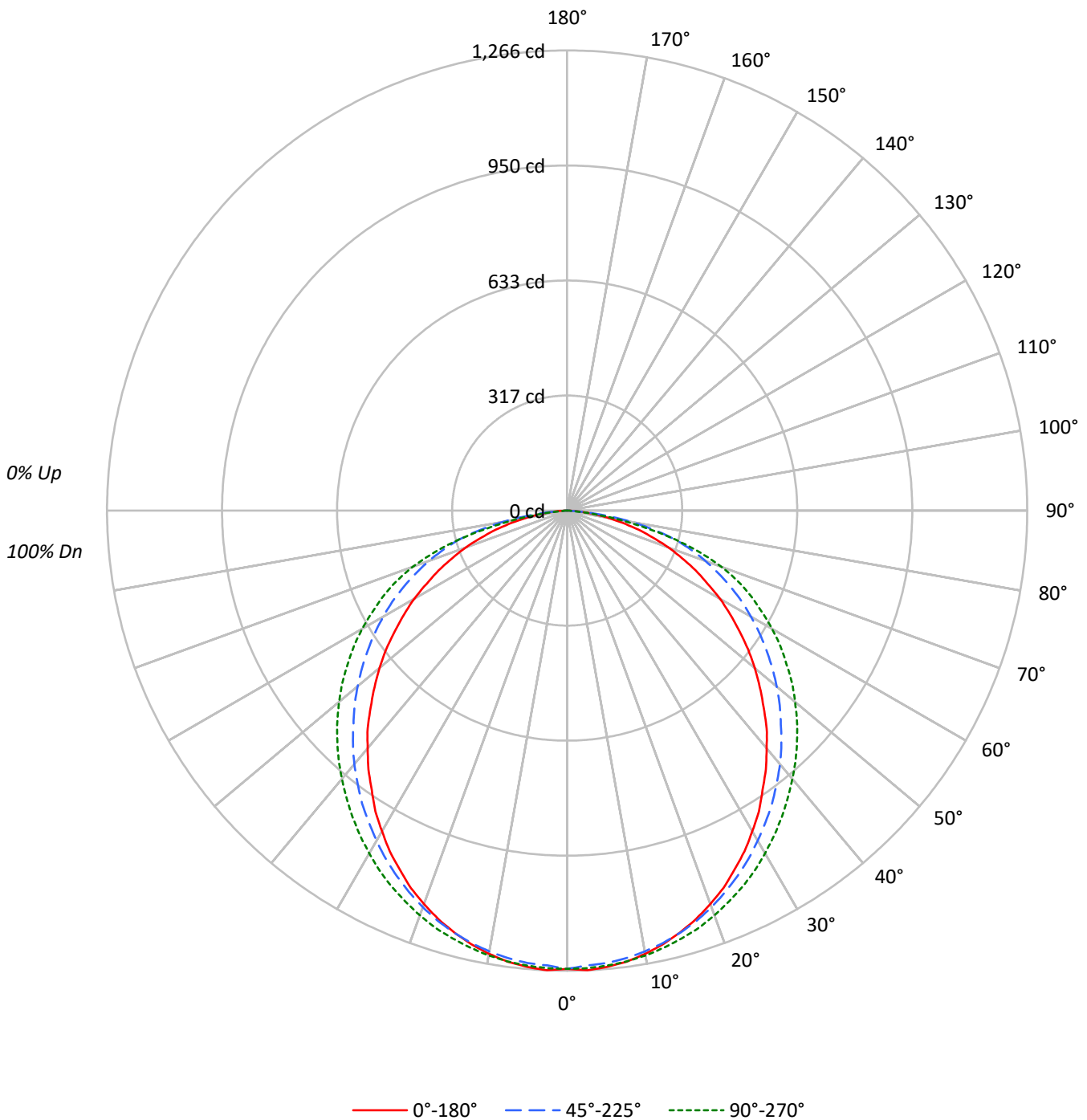
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3393	3393	3393
5°	3404	3375	3395
10°	3383	3365	3396
15°	3347	3349	3394
20°	3298	3326	3393
25°	3235	3293	3390
30°	3165	3259	3383
35°	3080	3231	3381
40°	2999	3199	3386
45°	2907	3165	3404
50°	2822	3150	3427
55°	2715	3140	3457
60°	2618	3145	3505
65°	2484	3154	3559
70°	2330	3179	3557
75°	2113	3208	3216
80°	1733	2769	2289
85°	1284	1309	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	3.3
10°-20°	340.8	9.3
20°-30°	513.4	14.0
30°-40°	616.1	16.8
40°-50°	642.2	17.5
50°-60°	594.5	16.2
60°-70°	480.3	13.1
70°-80°	292.9	8.0
80°-90°	60.5	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°	973.6	26.6
0°-40°	1589.7	43.4
0°-60°	2826.3	77.2
0°-90°	3660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1260	1257	1250	1258	1257	120
15°	1201	1202	1202	1218	1218	339
25°	1090	1096	1109	1137	1142	502
35°	938	952	983	1019	1029	587
45°	764	787	832	878	894	590
55°	579	609	669	721	737	518
65°	390	428	495	545	559	386
75°	203	248	308	313	309	213
85°	42	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°	1260.9	1260.9	1260.9	1260.9	1260.9
2.5°	1265.8	1261.7	1252.7	1261.7	1260.1
5°	1260.1	1256.8	1249.5	1258.4	1256.8
7.5°	1251.9	1248.6	1242.1	1252.7	1251.1
10°	1238.0	1236.4	1231.5	1243.7	1242.9
12.5°	1221.7	1220.9	1218.4	1232.3	1231.5
15°	1201.3	1202.1	1202.1	1218.4	1218.4
17.5°	1178.5	1180.1	1183.4	1201.3	1203.8
20°	1151.5	1154.8	1161.3	1181.7	1185.0
22.5°	1123.8	1126.2	1136.0	1160.5	1163.8
25°	1089.5	1096.0	1109.1	1136.8	1141.7
27.5°	1056.9	1062.6	1080.5	1109.1	1117.2
30°	1018.5	1027.5	1048.7	1079.7	1088.7
32.5°	981.8	991.6	1016.1	1052.0	1060.1
35°	937.7	952.4	983.4	1019.3	1029.1
37.5°	897.7	911.6	946.7	985.9	997.3
40°	853.6	870.8	910.8	952.4	963.8
42.5°	812.8	829.2	872.4	914.9	930.4
45°	763.9	786.7	831.6	878.1	894.5
47.5°	719.0	741.8	793.3	843.0	857.7
50°	674.1	698.6	752.4	803.9	818.6
52.5°	627.6	653.7	711.6	763.1	780.2
55°	578.6	608.8	669.2	721.4	736.9
57.5°	532.1	563.1	627.6	680.6	696.1
60°	486.4	518.2	584.3	634.9	651.3
62.5°	435.8	473.3	541.9	591.7	603.9
65°	390.1	428.5	495.4	545.2	559.0
67.5°	341.9	383.6	450.5	496.2	509.2
70°	296.2	339.5	404.0	446.4	452.1
72.5°	247.3	291.3	356.6	383.6	383.6
75°	203.2	248.1	308.5	313.4	309.3
77.5°	155.1	204.8	244.0	234.2	224.4
80°	111.8	160.8	178.7	160.8	147.7
82.5°	75.1	116.7	107.7	85.7	75.9
85°	41.6	62.0	42.4	23.7	17.1
87.5°	15.5	13.9	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)