

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: P277169

Luminaire Tested: **22CZ2-34HE-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x2 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: 3362.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

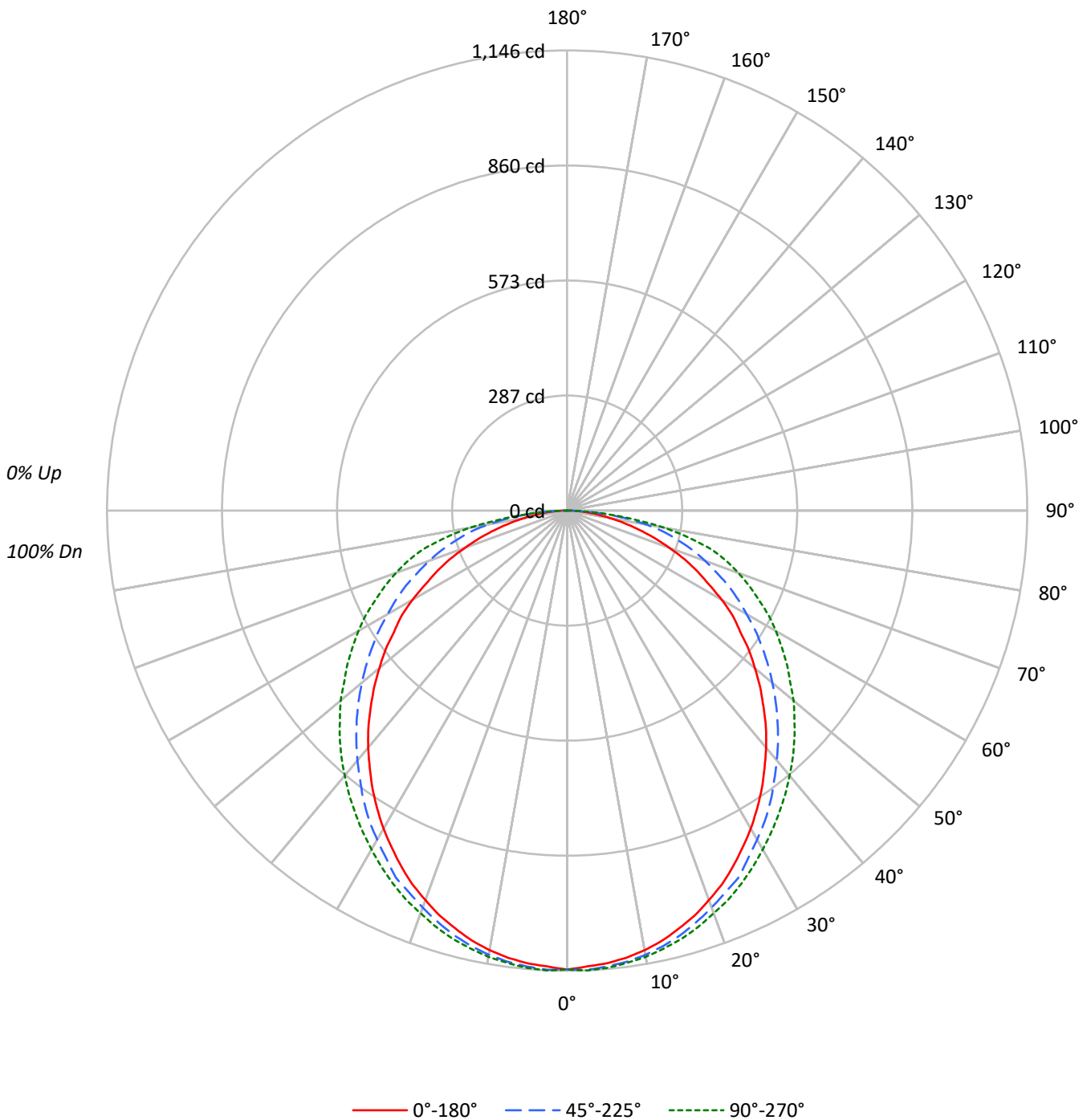
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3076	3076	3076
5°	3057	3079	3088
10°	3038	3069	3083
15°	3000	3046	3074
20°	2956	3013	3056
25°	2903	2996	3045
30°	2843	2940	3028
35°	2777	2902	3022
40°	2708	2853	3028
45°	2632	2820	3047
50°	2555	2791	3082
55°	2468	2779	3135
60°	2395	2778	3232
65°	2275	2823	3350
70°	2122	2877	3567
75°	1943	2976	3853
80°	1692	3102	3794
85°	1482	2757	3013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.2
10°-20°	307.9	9.2
20°-30°	462.3	13.7
30°-40°	552.4	16.4
40°-50°	574.4	17.1
50°-60°	532.4	15.8
60°-70°	436.7	13.0
70°-80°	295.2	8.8
80°-90°	92.8	2.8
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°	878.3	26.1
0°-40°	1430.7	42.6
0°-60°	2537.4	75.5
0°-90°	3362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1132	1133	1140	1142	1143	107
15°	1077	1082	1094	1100	1103	304
25°	978	986	1009	1021	1026	450
35°	845	857	883	910	920	528
45°	692	705	741	784	801	534
55°	526	543	592	645	668	473
65°	357	377	443	501	526	353
75°	187	218	286	344	371	198
85°	48	66	89	99	98	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.1	1143.1	1143.1	1143.1	1143.1
2.5°	1136.5	1139.8	1144.8	1146.5	1146.5
5°	1131.6	1133.2	1139.8	1141.5	1143.1
7.5°	1123.3	1126.6	1133.2	1134.9	1136.5
10°	1111.7	1115.0	1123.3	1126.6	1128.3
12.5°	1096.8	1100.1	1110.1	1115.0	1116.7
15°	1077.0	1081.9	1093.5	1100.1	1103.4
17.5°	1057.1	1062.1	1073.7	1083.6	1086.9
20°	1032.3	1043.9	1052.2	1065.4	1067.0
22.5°	1007.5	1014.1	1029.0	1042.2	1048.8
25°	977.7	986.0	1009.1	1020.7	1025.7
27.5°	946.3	957.9	976.1	994.3	1000.9
30°	914.8	923.1	946.3	967.8	974.4
32.5°	880.1	891.7	916.5	938.0	947.9
35°	845.4	856.9	883.4	909.9	919.8
37.5°	807.3	820.5	847.0	878.4	891.7
40°	770.9	780.8	812.3	850.3	861.9
42.5°	732.9	744.4	777.5	818.9	832.1
45°	691.5	704.7	741.1	784.2	800.7
47.5°	651.8	665.0	704.7	747.8	767.6
50°	610.4	627.0	666.7	716.3	736.2
52.5°	570.7	585.6	630.3	681.6	699.8
55°	526.1	542.6	592.3	645.2	668.3
57.5°	489.7	501.3	555.9	610.4	633.6
60°	445.0	459.9	516.2	574.1	600.5
62.5°	397.0	421.9	479.8	539.3	565.8
65°	357.3	377.2	443.4	501.3	526.1
67.5°	316.0	337.5	402.0	463.2	491.3
70°	269.7	297.8	365.6	426.8	453.3
72.5°	228.3	258.1	327.6	387.1	415.2
75°	186.9	218.4	286.2	344.1	370.6
77.5°	147.2	182.0	248.1	292.8	309.4
80°	109.2	142.3	200.2	231.6	244.8
82.5°	76.1	104.2	147.2	163.8	167.1
85°	48.0	66.2	89.3	99.3	97.6
87.5°	21.5	26.5	33.1	36.4	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)