

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: P277247

Luminaire Tested: **22CZ2-34HE-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277247
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-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 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: 3348.0 lumens
Efficiency: N/A
Efficacy: 125.0 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

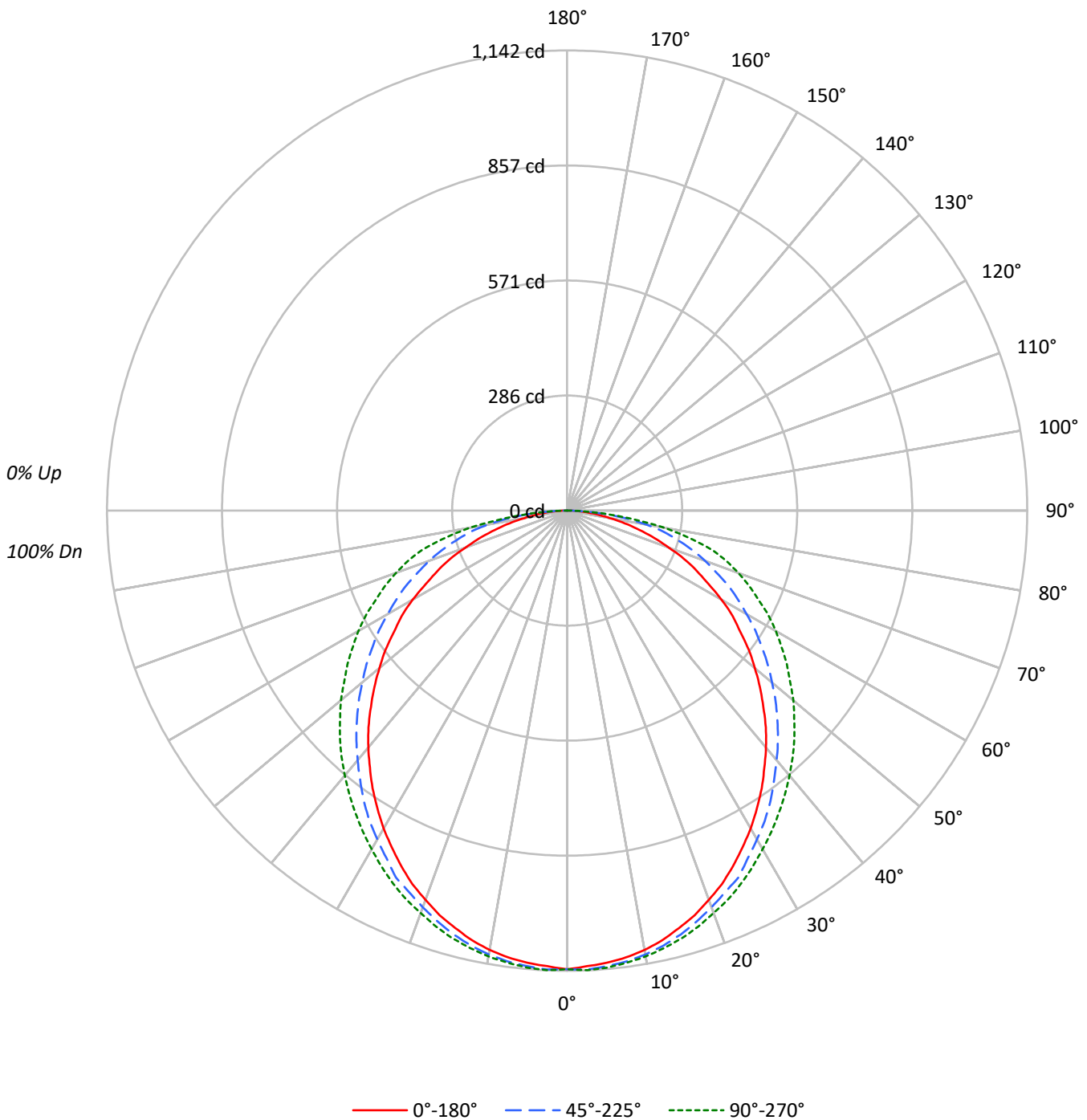
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3063	3063	3063
5°	3044	3066	3075
10°	3025	3057	3070
15°	2988	3034	3061
20°	2944	3001	3043
25°	2891	2984	3033
30°	2831	2928	3015
35°	2765	2890	3009
40°	2697	2842	3015
45°	2621	2809	3035
50°	2545	2779	3069
55°	2458	2767	3123
60°	2385	2766	3218
65°	2266	2811	3336
70°	2113	2865	3552
75°	1936	2963	3837
80°	1684	3088	3778
85°	1476	2748	3001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.2
10°-20°	306.6	9.2
20°-30°	460.3	13.7
30°-40°	550.1	16.4
40°-50°	572.0	17.1
50°-60°	530.1	15.8
60°-70°	434.8	13.0
70°-80°	294.0	8.8
80°-90°	92.4	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°	874.6	26.1
0°-40°	1424.7	42.6
0°-60°	2526.8	75.5
0°-90°	3348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1127	1128	1135	1137	1138	107
15°	1072	1077	1089	1096	1099	303
25°	974	982	1005	1016	1021	448
35°	842	853	880	906	916	526
45°	689	702	738	781	797	532
55°	524	540	590	642	666	471
65°	356	376	442	499	524	352
75°	186	218	285	343	369	197
85°	48	66	89	99	97	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.4	1138.4	1138.4	1138.4	1138.4
2.5°	1131.8	1135.1	1140.0	1141.7	1141.7
5°	1126.8	1128.5	1135.1	1136.7	1138.4
7.5°	1118.6	1121.9	1128.5	1130.1	1131.8
10°	1107.1	1110.4	1118.6	1121.9	1123.6
12.5°	1092.3	1095.5	1105.4	1110.4	1112.0
15°	1072.5	1077.4	1089.0	1095.5	1098.8
17.5°	1052.7	1057.7	1069.2	1079.1	1082.4
20°	1028.0	1039.5	1047.8	1061.0	1062.6
22.5°	1003.3	1009.9	1024.7	1037.9	1044.5
25°	973.6	981.9	1004.9	1016.5	1021.4
27.5°	942.3	953.9	972.0	990.1	996.7
30°	911.0	919.3	942.3	963.8	970.3
32.5°	876.4	888.0	912.7	934.1	944.0
35°	841.8	853.4	879.7	906.1	916.0
37.5°	804.0	817.1	843.5	874.8	888.0
40°	767.7	777.6	808.9	846.8	858.3
42.5°	729.8	741.3	774.3	815.5	828.7
45°	688.6	701.8	738.1	780.9	797.4
47.5°	649.1	662.3	701.8	744.6	764.4
50°	607.9	624.4	663.9	713.3	733.1
52.5°	568.4	583.2	627.7	678.7	696.9
55°	523.9	540.4	589.8	642.5	665.6
57.5°	487.6	499.2	553.5	607.9	631.0
60°	443.2	458.0	514.0	571.7	598.0
62.5°	395.4	420.1	477.8	537.1	563.4
65°	355.8	375.6	441.5	499.2	523.9
67.5°	314.7	336.1	400.3	461.3	489.3
70°	268.5	296.5	364.1	425.0	451.4
72.5°	227.3	257.0	326.2	385.5	413.5
75°	186.2	217.5	285.0	342.7	369.0
77.5°	146.6	181.2	247.1	291.6	308.1
80°	108.7	141.7	199.3	230.6	243.8
82.5°	75.8	103.8	146.6	163.1	166.4
85°	47.8	65.9	89.0	98.8	97.2
87.5°	21.4	26.4	32.9	36.2	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)