

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: P277466

Luminaire Tested: **22CZ2-34HE-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3122.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

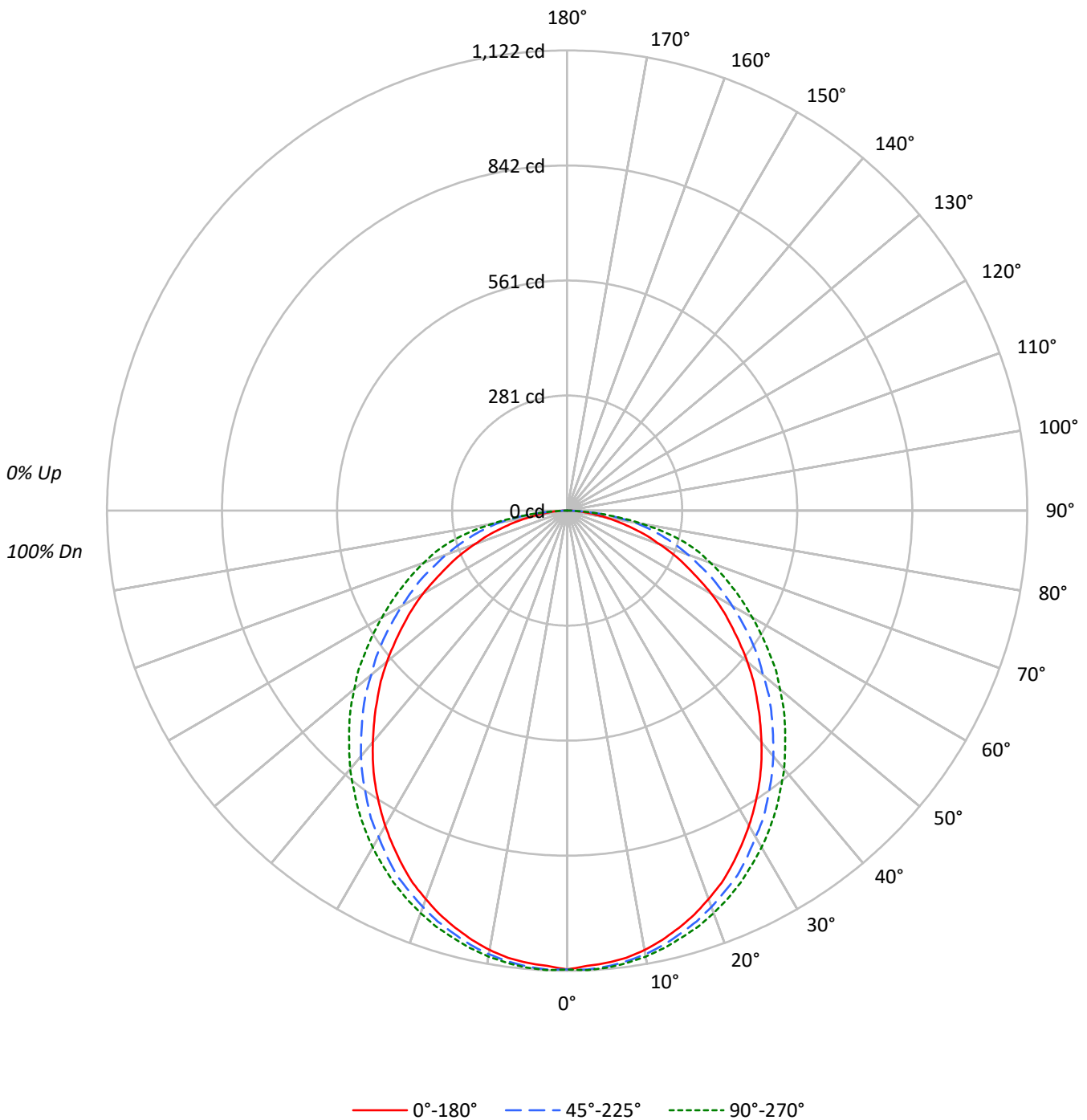
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3010	3010	3010
5°	2991	3014	3022
10°	2973	3001	3017
15°	2934	2975	3003
20°	2887	2945	2991
25°	2829	2915	2971
30°	2756	2856	2947
35°	2680	2804	2919
40°	2589	2748	2891
45°	2495	2683	2860
50°	2403	2610	2835
55°	2289	2563	2815
60°	2187	2501	2807
65°	2041	2486	2838
70°	1880	2464	2922
75°	1696	2498	3074
80°	1468	2574	2890
85°	1213	2158	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	3.4
10°-20°	301.1	9.6
20°-30°	450.5	14.4
30°-40°	533.5	17.1
40°-50°	543.7	17.4
50°-60°	487.3	15.6
60°-70°	381.5	12.2
70°-80°	246.0	7.9
80°-90°	72.7	2.3
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°	857.3	27.5
0°-40°	1390.8	44.5
0°-60°	2421.8	77.6
0°-90°	3122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1107	1110	1116	1117	1119	105
15°	1053	1059	1068	1076	1078	297
25°	953	961	982	995	1001	439
35°	816	826	854	880	889	510
45°	656	670	705	741	752	506
55°	488	504	546	584	600	438
65°	320	339	390	428	446	318
75°	163	188	240	281	296	175
85°	39	54	70	70	70	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.7	1118.7	1118.7	1118.7	1118.7
2.5°	1111.4	1114.3	1120.2	1121.6	1121.6
5°	1107.1	1110.0	1115.8	1117.3	1118.7
7.5°	1099.8	1101.2	1108.5	1111.4	1112.9
10°	1088.1	1091.0	1098.3	1102.7	1104.1
12.5°	1072.1	1076.5	1085.2	1091.0	1092.5
15°	1053.2	1059.0	1067.7	1076.5	1077.9
17.5°	1032.8	1038.6	1050.2	1060.4	1063.4
20°	1008.0	1015.3	1028.4	1040.1	1044.4
22.5°	983.2	989.1	1005.1	1019.7	1024.0
25°	952.7	961.4	981.8	994.9	1000.7
27.5°	920.6	930.8	951.2	968.7	974.5
30°	887.1	897.3	919.1	941.0	948.3
32.5°	852.1	863.8	890.0	911.9	919.1
35°	815.7	825.9	853.6	879.8	888.6
37.5°	777.9	786.6	818.6	846.3	855.1
40°	737.1	748.7	782.2	814.3	823.0
42.5°	696.3	709.4	742.9	777.9	786.6
45°	655.5	670.1	705.0	741.4	751.6
47.5°	616.2	627.8	667.1	702.1	716.7
50°	573.9	585.6	623.4	662.8	677.3
52.5°	530.2	546.2	587.0	624.9	642.4
55°	488.0	504.0	546.2	584.1	600.1
57.5°	448.6	461.8	505.5	544.8	560.8
60°	406.4	418.1	464.7	506.9	521.5
62.5°	361.3	378.7	426.8	466.1	483.6
65°	320.5	339.4	390.4	428.3	445.7
67.5°	282.6	300.1	349.6	390.4	409.3
70°	238.9	262.2	313.2	354.0	371.4
72.5°	203.9	224.3	276.8	317.6	336.5
75°	163.1	187.9	240.3	281.1	295.7
77.5°	129.6	154.4	203.9	236.0	243.3
80°	94.7	119.4	166.1	182.1	186.5
82.5°	64.1	87.4	119.4	123.8	125.3
85°	39.3	53.9	69.9	69.9	69.9
87.5°	18.9	21.8	24.8	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)