

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: P277243

Luminaire Tested: **22CZ2-34HE-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277243
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-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3253.0 lumens
Efficiency: N/A
Efficacy: 124.5 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

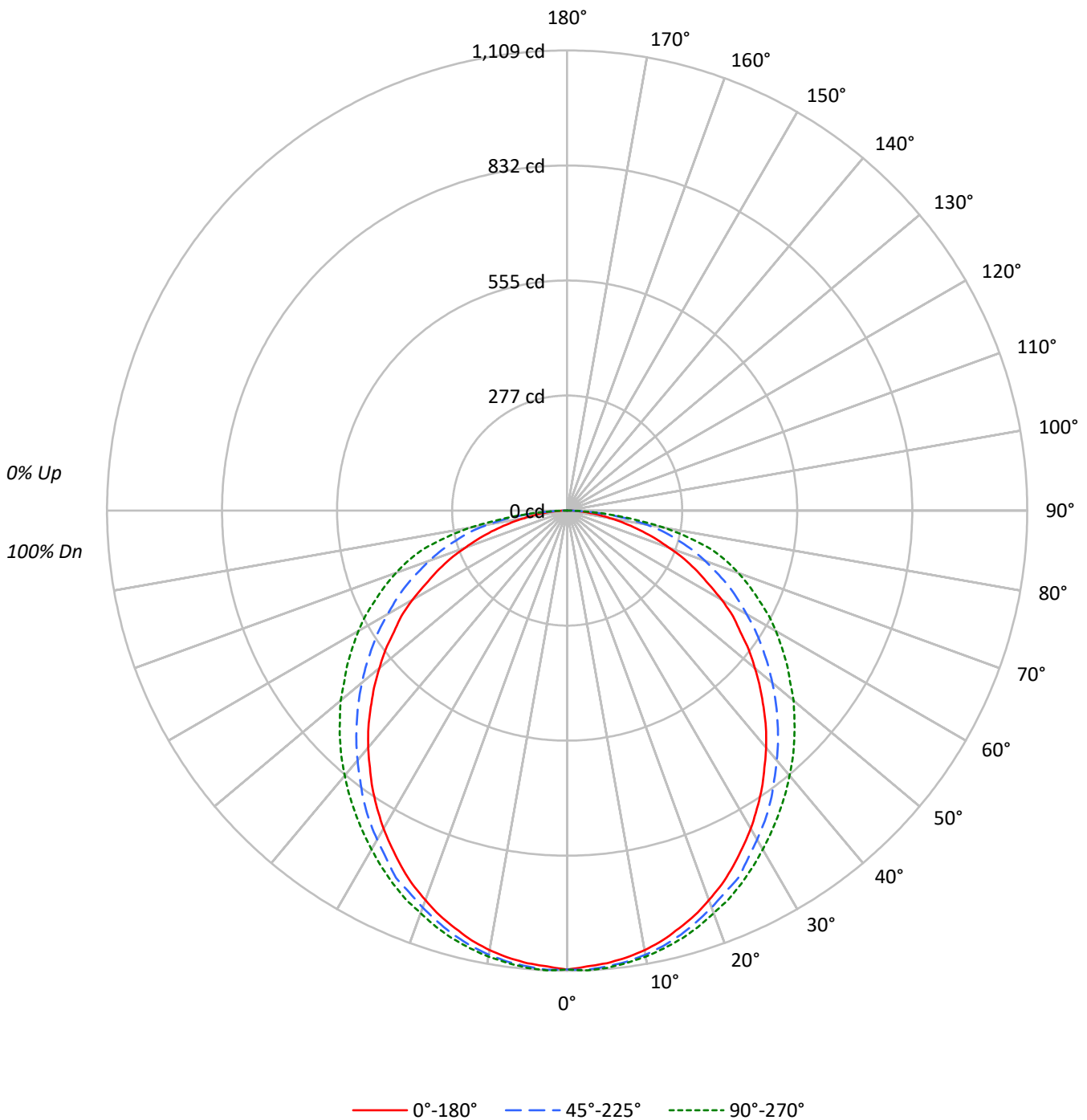
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2976	2976	2976
5°	2958	2979	2988
10°	2939	2970	2983
15°	2903	2948	2975
20°	2860	2915	2956
25°	2809	2899	2947
30°	2751	2845	2930
35°	2687	2808	2924
40°	2620	2761	2930
45°	2546	2729	2948
50°	2473	2701	2982
55°	2388	2688	3034
60°	2317	2688	3127
65°	2202	2732	3241
70°	2053	2784	3451
75°	1881	2879	3728
80°	1636	3002	3671
85°	1433	2668	2915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	3.2
10°-20°	297.9	9.2
20°-30°	447.3	13.7
30°-40°	534.5	16.4
40°-50°	555.7	17.1
50°-60°	515.1	15.8
60°-70°	422.5	13.0
70°-80°	285.6	8.8
80°-90°	89.7	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°	849.8	26.1
0°-40°	1384.3	42.6
0°-60°	2455.1	75.5
0°-90°	3253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1095	1096	1103	1104	1106	104
15°	1042	1047	1058	1064	1068	294
25°	946	954	976	988	992	436
35°	818	829	855	880	890	511
45°	669	682	717	759	775	517
55°	509	525	573	624	647	457
65°	346	365	429	485	509	342
75°	181	211	277	333	359	192
85°	46	64	86	96	94	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1106.1	1106.1	1106.1	1106.1	1106.1
2.5°	1099.7	1102.9	1107.7	1109.3	1109.3
5°	1094.9	1096.5	1102.9	1104.5	1106.1
7.5°	1086.9	1090.1	1096.5	1098.1	1099.7
10°	1075.7	1078.9	1086.9	1090.1	1091.7
12.5°	1061.3	1064.5	1074.1	1078.9	1080.5
15°	1042.1	1046.9	1058.1	1064.5	1067.7
17.5°	1022.8	1027.6	1038.9	1048.5	1051.7
20°	998.8	1010.0	1018.0	1030.8	1032.4
22.5°	974.8	981.2	995.6	1008.4	1014.8
25°	946.0	954.0	976.4	987.6	992.4
27.5°	915.6	926.8	944.4	962.0	968.4
30°	885.2	893.2	915.6	936.4	942.8
32.5°	851.6	862.8	886.8	907.6	917.2
35°	818.0	829.2	854.8	880.4	890.0
37.5°	781.1	793.9	819.6	850.0	862.8
40°	745.9	755.5	785.9	822.8	834.0
42.5°	709.1	720.3	752.3	792.3	805.1
45°	669.1	681.9	717.1	758.7	774.7
47.5°	630.7	643.5	681.9	723.5	742.7
50°	590.7	606.7	645.1	693.1	712.3
52.5°	552.2	566.6	609.9	659.5	677.1
55°	509.0	525.0	573.0	624.3	646.7
57.5°	473.8	485.0	537.8	590.7	613.1
60°	430.6	445.0	499.4	555.4	581.1
62.5°	384.2	408.2	464.2	521.8	547.4
65°	345.8	365.0	429.0	485.0	509.0
67.5°	305.7	326.5	389.0	448.2	475.4
70°	260.9	288.1	353.8	413.0	438.6
72.5°	220.9	249.7	316.9	374.6	401.8
75°	180.9	211.3	276.9	332.9	358.6
77.5°	142.5	176.1	240.1	283.3	299.3
80°	105.6	137.7	193.7	224.1	236.9
82.5°	73.6	100.8	142.5	158.5	161.7
85°	46.4	64.0	86.4	96.0	94.4
87.5°	20.8	25.6	32.0	35.2	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)