

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: P277506

Luminaire Tested: **22CZ2-34HE-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-RDP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2272.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

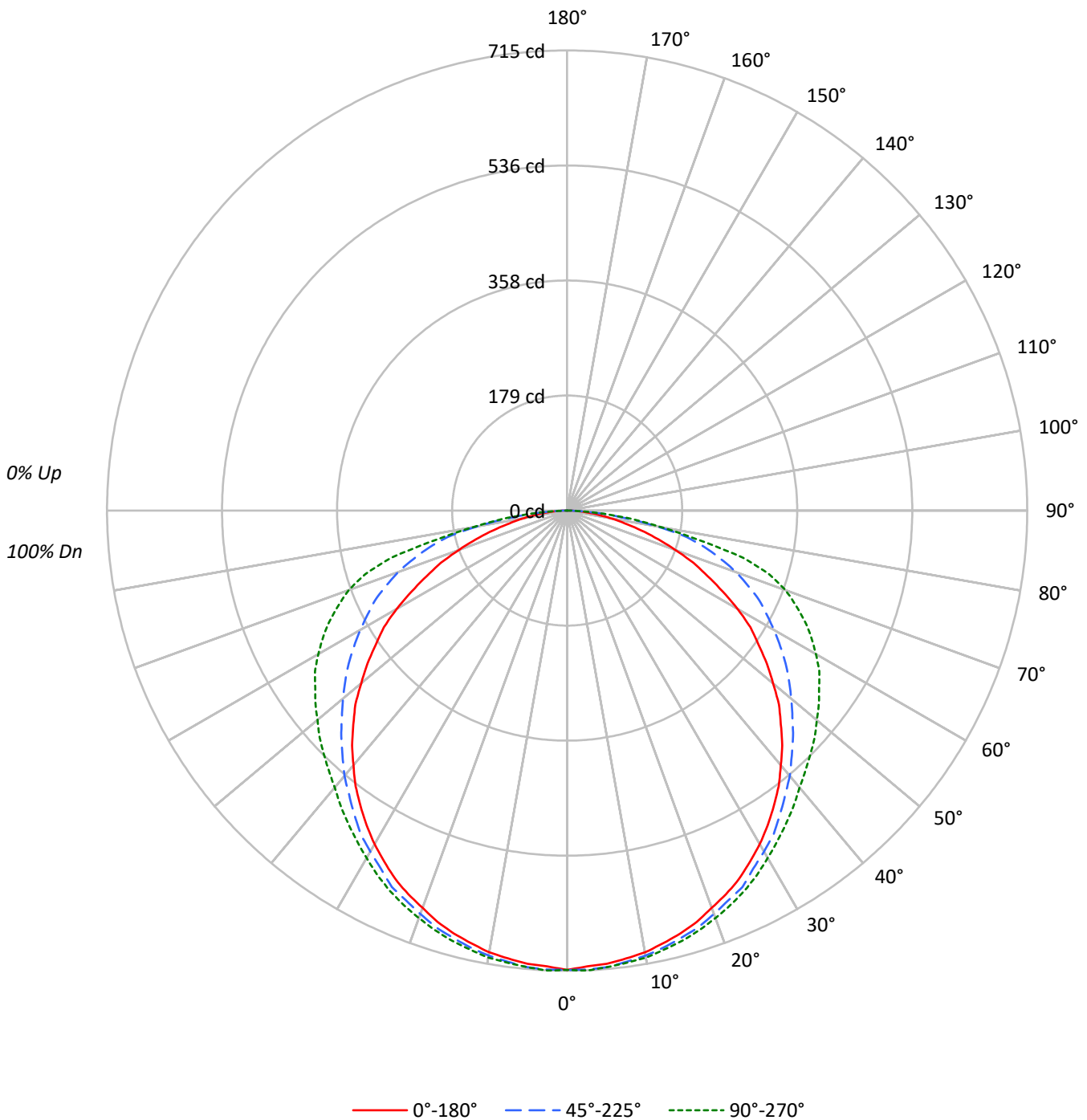
Input Watts (W): 26.97
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1921	1921	1921
5°	1910	1923	1923
10°	1905	1918	1927
15°	1895	1914	1928
20°	1881	1910	1929
25°	1876	1915	1935
30°	1859	1901	1937
35°	1839	1894	1949
40°	1814	1891	1973
45°	1787	1889	2035
50°	1749	1903	2120
55°	1702	1945	2243
60°	1646	1997	2402
65°	1533	2097	2597
70°	1407	2196	2840
75°	1234	2311	2937
80°	1062	2202	2306
85°	929	1599	1754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	3.0
10°-20°	193.8	8.5
20°-30°	295.7	13.0
30°-40°	361.1	15.9
40°-50°	386.1	17.0
50°-60°	372.7	16.4
60°-70°	320.8	14.1
70°-80°	217.0	9.6
80°-90°	57.3	2.5
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°	557.1	24.5
0°-40°	918.2	40.4
0°-60°	1676.9	73.8
0°-90°	2272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	707	709	712	712	712	67
15°	680	682	687	690	692	192
25°	632	635	645	648	652	291
35°	560	565	577	588	593	350
45°	470	478	496	522	535	363
55°	363	374	414	456	478	325
65°	241	264	329	381	408	239
75°	119	157	222	267	282	127
85°	30	42	52	54	57	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.7	713.7	713.7	713.7	713.7
2.5°	708.7	710.3	713.7	713.7	715.3
5°	707.0	708.7	712.0	712.0	712.0
7.5°	702.0	703.6	707.0	708.7	708.7
10°	697.0	698.6	702.0	703.6	705.3
12.5°	688.6	690.3	695.3	698.6	698.6
15°	680.2	681.9	686.9	690.3	691.9
17.5°	670.2	673.6	678.6	681.9	683.6
20°	656.8	660.2	666.9	671.9	673.6
22.5°	645.1	648.5	655.2	660.2	663.5
25°	631.8	635.1	645.1	648.5	651.8
27.5°	615.1	618.4	626.8	633.4	638.5
30°	598.4	601.7	611.7	620.1	623.4
32.5°	580.0	585.0	596.7	603.4	608.4
35°	559.9	564.9	576.6	588.3	593.3
37.5°	539.9	544.9	556.6	571.6	578.3
40°	516.5	523.1	538.2	558.2	561.6
42.5°	494.7	503.1	516.5	539.9	548.2
45°	469.7	478.0	496.4	521.5	534.8
47.5°	446.3	454.6	474.7	504.8	521.5
50°	417.8	429.5	454.6	489.7	506.4
52.5°	391.1	401.1	434.6	473.0	493.1
55°	362.7	374.4	414.5	456.3	478.0
57.5°	337.6	347.6	392.8	439.6	464.6
60°	305.9	319.2	371.0	421.2	446.3
62.5°	272.4	292.5	349.3	401.1	427.9
65°	240.7	264.1	329.3	381.1	407.8
67.5°	212.3	237.3	304.2	359.3	384.4
70°	178.8	210.6	279.1	332.6	361.0
72.5°	148.8	183.9	250.7	304.2	329.3
75°	118.7	157.1	222.3	267.4	282.5
77.5°	91.9	128.7	190.5	203.9	205.6
80°	68.5	102.0	142.1	143.7	148.8
82.5°	46.8	71.9	91.9	100.3	102.0
85°	30.1	41.8	51.8	53.5	56.8
87.5°	13.4	15.0	18.4	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)