

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: P388280

Luminaire Tested: **22CZ2-34VHE-UNV-L950-CD1-U**

Issue Date: 2/28/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P388280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-UNV-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

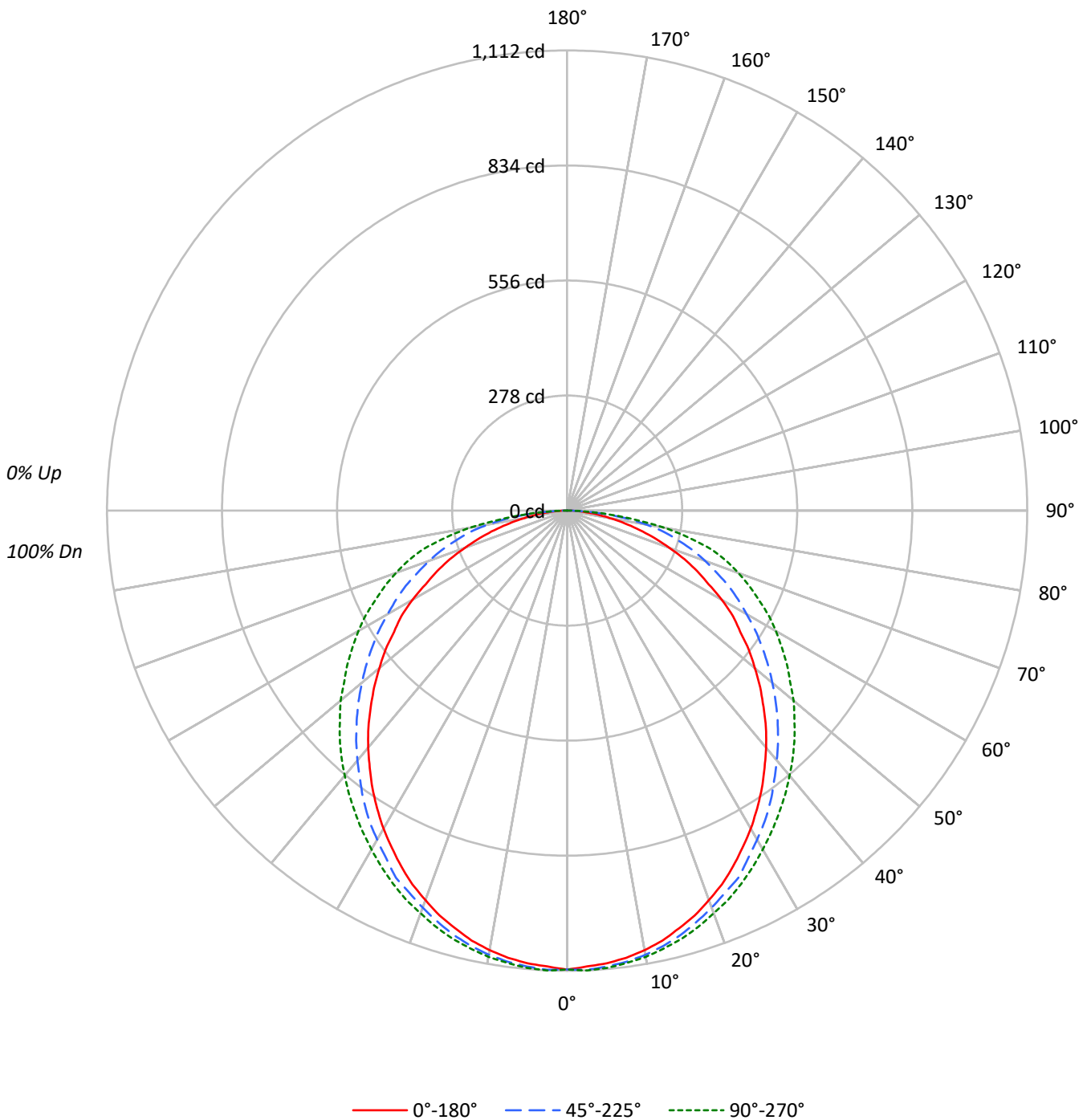
Lumens per Lamp: N/A
Luminaire Lumens: 3262.3 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 25.1
Input Voltage (V): NR
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°	2985	2985	2985
5°	2966	2988	2996
10°	2948	2978	2992
15°	2911	2956	2983
20°	2869	2924	2965
25°	2817	2907	2955
30°	2758	2853	2938
35°	2695	2816	2932
40°	2628	2769	2938
45°	2554	2737	2957
50°	2480	2708	2990
55°	2395	2696	3042
60°	2324	2695	3136
65°	2208	2739	3251
70°	2059	2792	3460
75°	1886	2887	3739
80°	1641	3009	3682
85°	1439	2677	2924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.2
10°-20°	298.8	9.2
20°-30°	448.6	13.7
30°-40°	536.0	16.4
40°-50°	557.3	17.1
50°-60°	516.6	15.8
60°-70°	423.7	13.0
70°-80°	286.4	8.8
80°-90°	90.0	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°	852.3	26.1
0°-40°	1388.2	42.6
0°-60°	2462.1	75.5
0°-90°	3262.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3262.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1098	1100	1106	1108	1109	104
15°	1045	1050	1061	1068	1071	295
25°	949	957	979	990	995	437
35°	820	832	857	883	892	513
45°	671	684	719	761	777	518
55°	510	526	575	626	648	459
65°	347	366	430	486	510	343
75°	181	212	278	334	360	192
85°	47	64	87	96	95	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1102.8	1106.0	1110.8	1112.5	1112.5
5°	1098.0	1099.6	1106.0	1107.6	1109.2
7.5°	1090.0	1093.2	1099.6	1101.2	1102.8
10°	1078.7	1082.0	1090.0	1093.2	1094.8
12.5°	1064.3	1067.5	1077.1	1082.0	1083.6
15°	1045.0	1049.8	1061.1	1067.5	1070.7
17.5°	1025.8	1030.6	1041.8	1051.5	1054.7
20°	1001.7	1012.9	1021.0	1033.8	1035.4
22.5°	977.6	984.0	998.5	1011.3	1017.7
25°	948.7	956.7	979.2	990.5	995.3
27.5°	918.2	929.5	947.1	964.8	971.2
30°	887.7	895.7	918.2	939.1	945.5
32.5°	854.0	865.2	889.3	910.2	919.8
35°	820.3	831.5	857.2	882.9	892.5
37.5°	783.4	796.2	821.9	852.4	865.2
40°	748.1	757.7	788.2	825.1	836.3
42.5°	711.1	722.4	754.5	794.6	807.5
45°	671.0	683.8	719.2	760.9	777.0
47.5°	632.5	645.3	683.8	725.6	744.8
50°	592.3	608.4	646.9	695.1	714.3
52.5°	553.8	568.3	611.6	661.4	679.0
55°	510.5	526.5	574.7	626.1	648.5
57.5°	475.2	486.4	539.4	592.3	614.8
60°	431.8	446.3	500.8	557.0	582.7
62.5°	385.3	409.3	465.5	523.3	549.0
65°	346.7	366.0	430.2	486.4	510.5
67.5°	306.6	327.5	390.1	449.5	476.8
70°	261.7	288.9	354.8	414.2	439.8
72.5°	221.5	250.4	317.8	375.6	402.9
75°	181.4	211.9	277.7	333.9	359.6
77.5°	142.9	176.6	240.8	284.1	300.2
80°	105.9	138.1	194.2	224.7	237.6
82.5°	73.8	101.1	142.9	158.9	162.1
85°	46.6	64.2	86.7	96.3	94.7
87.5°	20.9	25.7	32.1	35.3	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)