

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: P390534

Luminaire Tested: **22CZ2-60VHE-RDP-UNV-L950-CD1-SDWPD1-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: P390534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-60VHE-RDP-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3635.4 lumens
Efficiency: N/A
Efficacy: 82.4 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

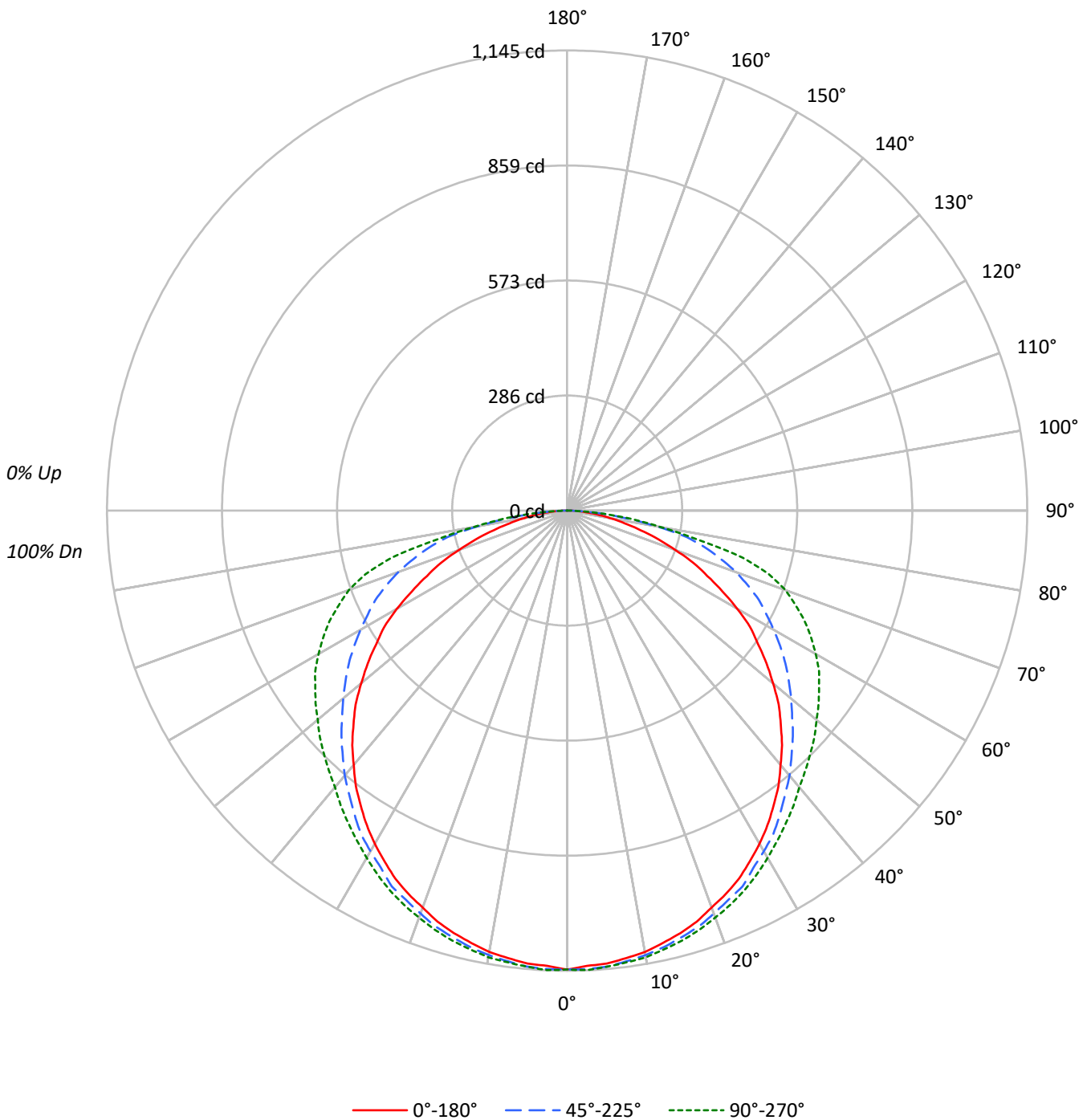
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3073	3073	3073
5°	3056	3078	3078
10°	3047	3069	3084
15°	3032	3062	3085
20°	3010	3056	3086
25°	3002	3065	3097
30°	2975	3041	3100
35°	2943	3031	3119
40°	2903	3025	3157
45°	2860	3023	3257
50°	2799	3045	3392
55°	2723	3111	3589
60°	2634	3195	3843
65°	2452	3354	4155
70°	2252	3514	4545
75°	1974	3698	4700
80°	1698	3522	3688
85°	1485	2560	2807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	3.0
10°-20°	310.2	8.5
20°-30°	473.2	13.0
30°-40°	577.8	15.9
40°-50°	617.8	17.0
50°-60°	596.3	16.4
60°-70°	513.3	14.1
70°-80°	347.3	9.6
80°-90°	91.6	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°	891.4	24.5
0°-40°	1469.1	40.4
0°-60°	2683.2	73.8
0°-90°	3635.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3635.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1131	1134	1139	1139	1139	107
15°	1088	1091	1099	1104	1107	307
25°	1011	1016	1032	1038	1043	465
35°	896	904	923	941	949	561
45°	752	765	794	834	856	580
55°	580	599	663	730	765	520
65°	385	422	527	610	652	383
75°	190	251	356	428	452	204
85°	48	67	83	86	91	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1141.9	1141.9	1141.9	1141.9	1141.9
2.5°	1133.9	1136.6	1141.9	1141.9	1144.6
5°	1131.2	1133.9	1139.3	1139.3	1139.3
7.5°	1123.2	1125.9	1131.2	1133.9	1133.9
10°	1115.2	1117.9	1123.2	1125.9	1128.6
12.5°	1101.8	1104.5	1112.5	1117.9	1117.9
15°	1088.5	1091.1	1099.2	1104.5	1107.2
17.5°	1072.4	1077.8	1085.8	1091.1	1093.8
20°	1051.0	1056.4	1067.1	1075.1	1077.8
22.5°	1032.3	1037.6	1048.3	1056.4	1061.7
25°	1010.9	1016.2	1032.3	1037.6	1043.0
27.5°	984.2	989.5	1002.9	1013.6	1021.6
30°	957.4	962.8	978.8	992.2	997.5
32.5°	928.0	936.0	954.7	965.4	973.5
35°	895.9	903.9	922.6	941.4	949.4
37.5°	863.8	871.8	890.6	914.6	925.3
40°	826.4	837.1	861.1	893.2	898.6
42.5°	791.6	805.0	826.4	863.8	877.2
45°	751.5	764.9	794.3	834.4	855.8
47.5°	714.0	727.4	759.5	807.7	834.4
50°	668.6	687.3	727.4	783.6	810.3
52.5°	625.8	641.8	695.3	756.8	788.9
55°	580.3	599.1	663.2	730.1	764.9
57.5°	540.2	556.3	628.5	703.4	743.5
60°	489.4	510.8	593.7	673.9	714.0
62.5°	435.9	468.0	558.9	641.8	684.6
65°	385.1	422.5	526.8	609.7	652.5
67.5°	339.6	379.8	486.7	575.0	615.1
70°	286.2	337.0	446.6	532.2	577.7
72.5°	238.0	294.2	401.2	486.7	526.8
75°	189.9	251.4	355.7	427.9	452.0
77.5°	147.1	205.9	304.9	326.3	328.9
80°	109.6	163.1	227.3	230.0	238.0
82.5°	74.9	115.0	147.1	160.5	163.1
85°	48.1	66.9	82.9	85.6	90.9
87.5°	21.4	24.1	29.4	26.7	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)