

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: P390582

Luminaire Tested: **22CZ2-65VHE-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: P390582
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: 22CZ2-65VHE-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: 3902.5 lumens
Efficiency: N/A
Efficacy: 81.5 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

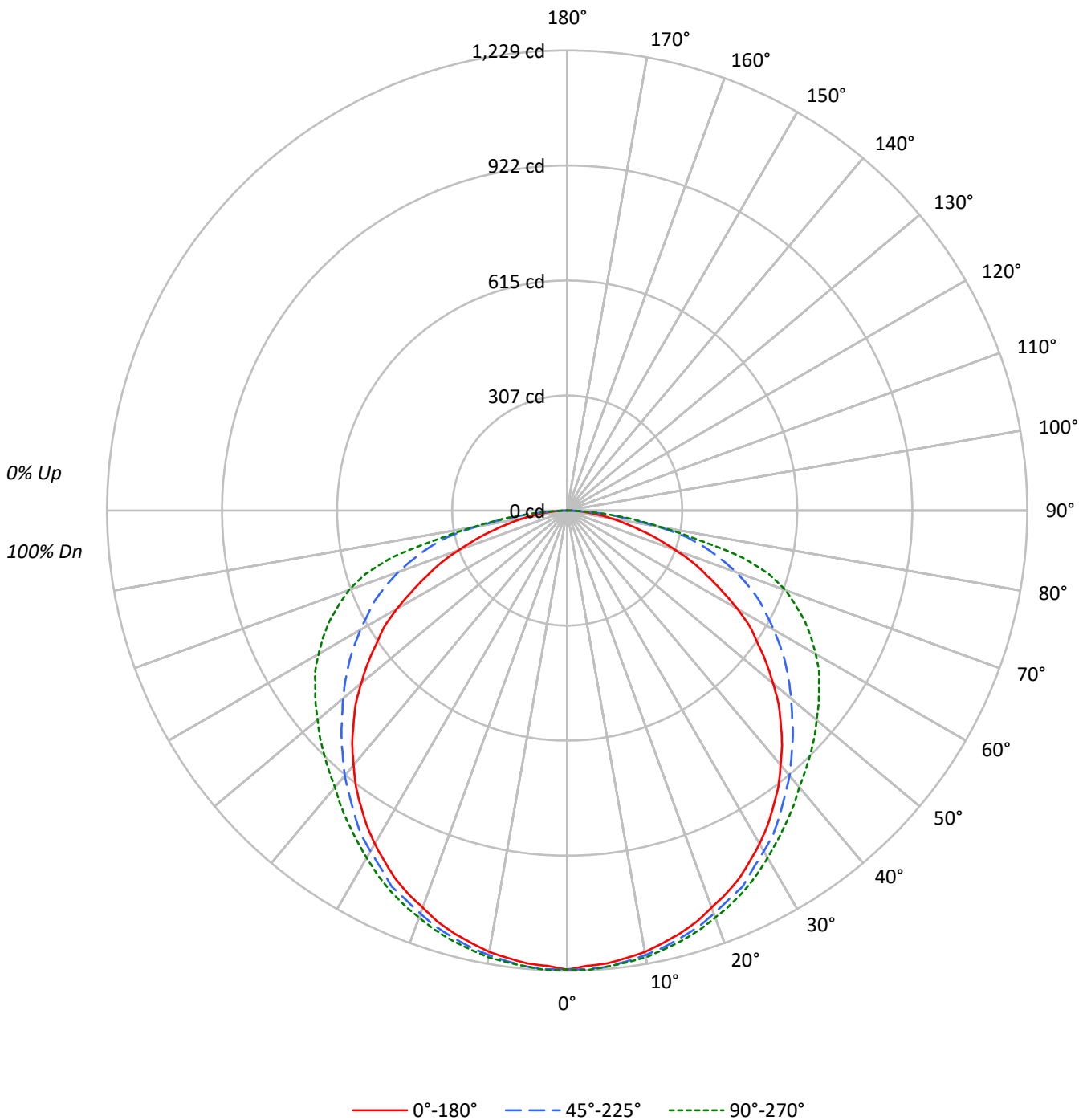
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3299	3299	3299
5°	3280	3304	3304
10°	3271	3295	3310
15°	3255	3287	3311
20°	3231	3280	3313
25°	3222	3290	3324
30°	3194	3265	3327
35°	3159	3254	3348
40°	3116	3247	3388
45°	3070	3245	3496
50°	3005	3269	3642
55°	2923	3340	3852
60°	2828	3430	4125
65°	2632	3601	4460
70°	2417	3772	4879
75°	2119	3970	5045
80°	1824	3781	3959
85°	1596	2748	3013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.0
10°-20°	332.9	8.5
20°-30°	508.0	13.0
30°-40°	620.2	15.9
40°-50°	663.2	17.0
50°-60°	640.1	16.4
60°-70°	551.0	14.1
70°-80°	372.8	9.6
80°-90°	98.4	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°	956.8	24.5
0°-40°	1577.1	40.4
0°-60°	2880.3	73.8
0°-90°	3902.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1214	1217	1223	1223	1223	115
15°	1168	1171	1180	1186	1188	330
25°	1085	1091	1108	1114	1120	499
35°	962	970	990	1010	1019	602
45°	807	821	853	896	919	623
55°	623	643	712	784	821	558
65°	413	454	566	654	700	411
75°	204	270	382	459	485	219
85°	52	72	89	92	98	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.8	1225.8	1225.8	1225.8	1225.8
2.5°	1217.2	1220.1	1225.8	1225.8	1228.7
5°	1214.4	1217.2	1223.0	1223.0	1223.0
7.5°	1205.7	1208.6	1214.4	1217.2	1217.2
10°	1197.1	1200.0	1205.7	1208.6	1211.5
12.5°	1182.8	1185.7	1194.3	1200.0	1200.0
15°	1168.4	1171.3	1179.9	1185.7	1188.5
17.5°	1151.2	1156.9	1165.6	1171.3	1174.2
20°	1128.2	1134.0	1145.5	1154.1	1156.9
22.5°	1108.1	1113.9	1125.4	1134.0	1139.7
25°	1085.2	1090.9	1108.1	1113.9	1119.6
27.5°	1056.5	1062.2	1076.6	1088.0	1096.7
30°	1027.8	1033.5	1050.7	1065.1	1070.8
32.5°	996.2	1004.8	1024.9	1036.4	1045.0
35°	961.7	970.3	990.4	1010.5	1019.1
37.5°	927.3	935.9	956.0	981.8	993.3
40°	887.1	898.6	924.4	958.9	964.6
42.5°	849.8	864.1	887.1	927.3	941.6
45°	806.7	821.1	852.6	895.7	918.7
47.5°	766.5	780.9	815.3	867.0	895.7
50°	717.7	737.8	780.9	841.2	869.9
52.5°	671.8	689.0	746.4	812.4	846.9
55°	623.0	643.1	712.0	783.7	821.1
57.5°	579.9	597.1	674.6	755.0	798.1
60°	525.4	548.3	637.3	723.4	766.5
62.5°	467.9	502.4	600.0	689.0	734.9
65°	413.4	453.6	565.6	654.5	700.5
67.5°	364.6	407.7	522.5	617.2	660.3
70°	307.2	361.7	479.4	571.3	620.1
72.5°	255.5	315.8	430.6	522.5	565.6
75°	203.8	269.9	381.8	459.3	485.2
77.5°	157.9	221.1	327.3	350.2	353.1
80°	117.7	175.1	244.0	246.9	255.5
82.5°	80.4	123.4	157.9	172.2	175.1
85°	51.7	71.8	89.0	91.9	97.6
87.5°	23.0	25.8	31.6	28.7	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)