

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: P390579

Luminaire Tested: **22CZ2-65VHE-RDP-UNV-L940-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: P390579
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-L940-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3676.7 lumens
Efficiency: N/A
Efficacy: 76.8 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

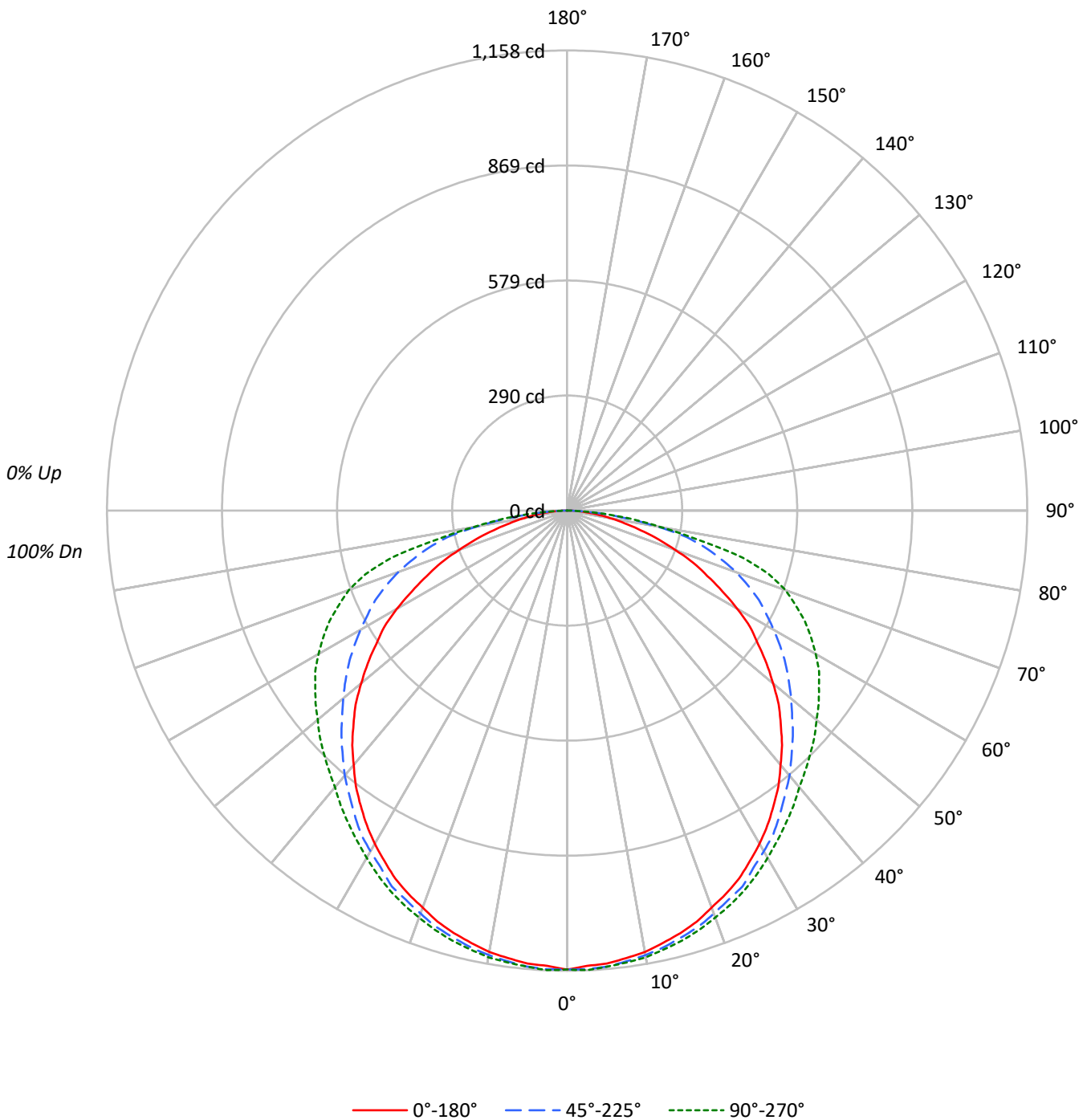
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3108	3108	3108
5°	3091	3112	3112
10°	3082	3104	3119
15°	3067	3097	3120
20°	3044	3090	3121
25°	3036	3100	3132
30°	3009	3076	3135
35°	2977	3065	3154
40°	2936	3059	3192
45°	2892	3057	3294
50°	2831	3080	3431
55°	2753	3147	3629
60°	2664	3231	3887
65°	2480	3393	4202
70°	2277	3554	4596
75°	1996	3740	4753
80°	1719	3563	3730
85°	1504	2587	2841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	3.0
10°-20°	313.7	8.5
20°-30°	478.6	13.0
30°-40°	584.3	15.9
40°-50°	624.8	17.0
50°-60°	603.1	16.4
60°-70°	519.1	14.1
70°-80°	351.2	9.6
80°-90°	92.7	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°	901.5	24.5
0°-40°	1485.8	40.4
0°-60°	2713.7	73.8
0°-90°	3676.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3676.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1144	1147	1152	1152	1152	109
15°	1101	1104	1112	1117	1120	311
25°	1022	1028	1044	1049	1055	471
35°	906	914	933	952	960	567
45°	760	774	803	844	866	587
55°	587	606	671	738	774	526
65°	390	427	533	617	660	387
75°	192	254	360	433	457	206
85°	49	68	84	87	92	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.9	1154.9	1154.9	1154.9	1154.9
2.5°	1146.8	1149.5	1154.9	1154.9	1157.6
5°	1144.1	1146.8	1152.2	1152.2	1152.2
7.5°	1136.0	1138.7	1144.1	1146.8	1146.8
10°	1127.9	1130.6	1136.0	1138.7	1141.4
12.5°	1114.3	1117.0	1125.2	1130.6	1130.6
15°	1100.8	1103.5	1111.6	1117.0	1119.8
17.5°	1084.6	1090.0	1098.1	1103.5	1106.2
20°	1063.0	1068.4	1079.2	1087.3	1090.0
22.5°	1044.0	1049.4	1060.3	1068.4	1073.8
25°	1022.4	1027.8	1044.0	1049.4	1054.8
27.5°	995.3	1000.7	1014.3	1025.1	1033.2
30°	968.3	973.7	989.9	1003.5	1008.9
32.5°	938.5	946.7	965.6	976.4	984.5
35°	906.1	914.2	933.1	952.1	960.2
37.5°	873.6	881.7	900.7	925.0	935.8
40°	835.8	846.6	870.9	903.4	908.8
42.5°	800.6	814.1	835.8	873.6	887.1
45°	760.0	773.5	803.3	843.9	865.5
47.5°	722.2	735.7	768.1	816.8	843.9
50°	676.2	695.1	735.7	792.5	819.5
52.5°	632.9	649.1	703.2	765.4	797.9
55°	586.9	605.9	670.8	738.4	773.5
57.5°	546.4	562.6	635.6	711.3	751.9
60°	495.0	516.6	600.4	681.6	722.2
62.5°	440.9	473.3	565.3	649.1	692.4
65°	389.5	427.3	532.8	616.7	660.0
67.5°	343.5	384.1	492.3	581.5	622.1
70°	289.4	340.8	451.7	538.2	584.2
72.5°	240.7	297.5	405.7	492.3	532.8
75°	192.0	254.2	359.7	432.8	457.1
77.5°	148.8	208.3	308.3	330.0	332.7
80°	110.9	165.0	229.9	232.6	240.7
82.5°	75.7	116.3	148.8	162.3	165.0
85°	48.7	67.6	83.8	86.6	92.0
87.5°	21.6	24.3	29.8	27.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)