

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: P390432

Luminaire Tested: **22CZ2-50VHE-RDP-UNV-L935-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: P390432
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: 22CZ2-50VHE-RDP-UNV-L935-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2826.8 lumens
Efficiency: N/A
Efficacy: 78.1 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

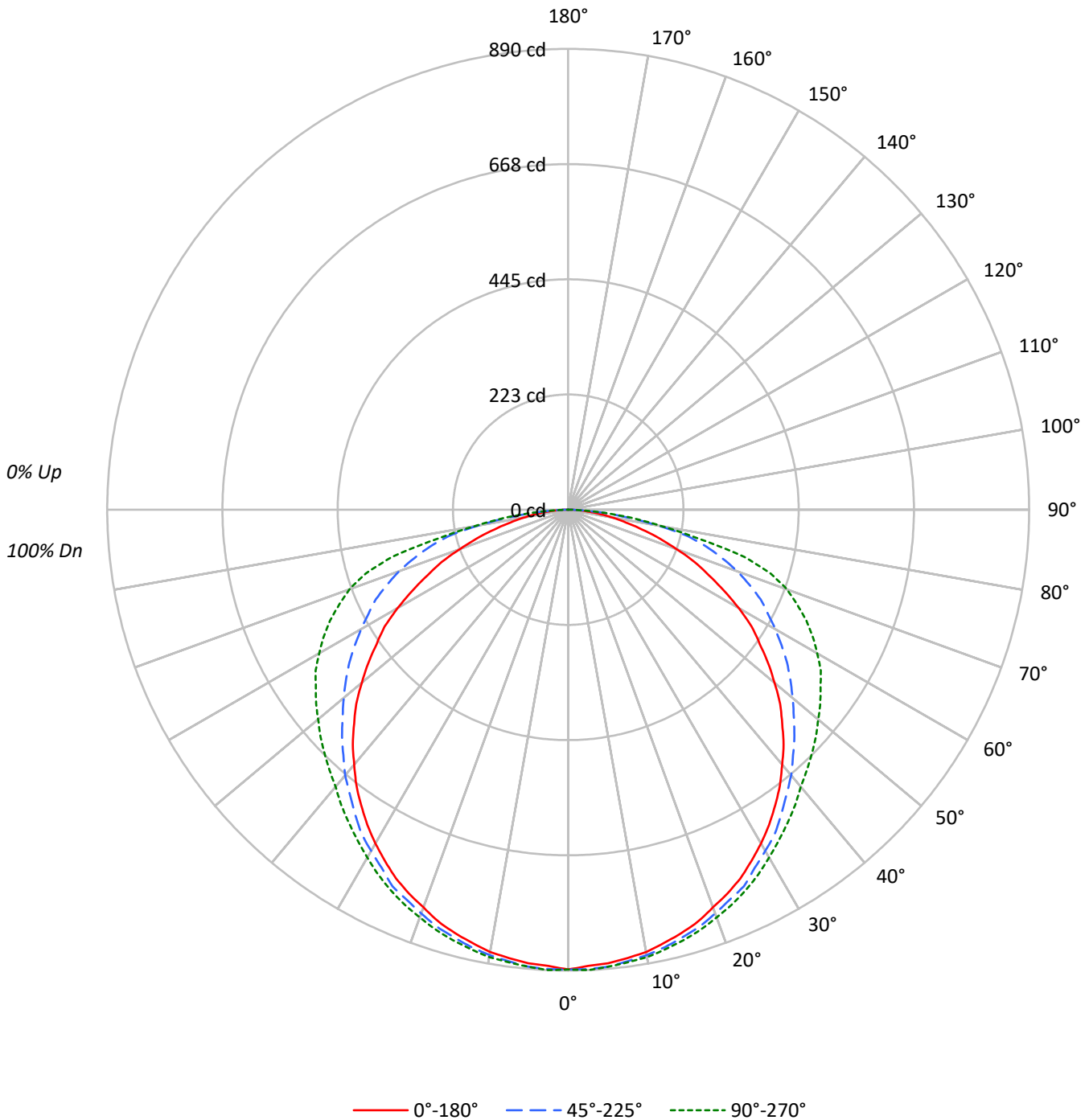
Input Watts (W): 36.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2389	2389	2389
5°	2376	2393	2393
10°	2370	2387	2398
15°	2358	2381	2398
20°	2340	2376	2400
25°	2334	2383	2408
30°	2313	2365	2410
35°	2288	2357	2425
40°	2257	2352	2454
45°	2224	2350	2532
50°	2177	2368	2638
55°	2117	2419	2790
60°	2048	2484	2988
65°	1906	2609	3231
70°	1751	2733	3534
75°	1535	2876	3654
80°	1322	2740	2868
85°	1155	1991	2183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.0
10°-20°	241.2	8.5
20°-30°	367.9	13.0
30°-40°	449.3	15.9
40°-50°	480.4	17.0
50°-60°	463.7	16.4
60°-70°	399.1	14.1
70°-80°	270.0	9.6
80°-90°	71.3	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°	693.1	24.5
0°-40°	1142.4	40.4
0°-60°	2086.4	73.8
0°-90°	2826.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2826.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	880	882	886	886	886	84
15°	846	848	855	859	861	239
25°	786	790	803	807	811	362
35°	697	703	717	732	738	436
45°	584	595	618	649	665	451
55°	451	466	516	568	595	404
65°	299	329	410	474	507	298
75°	148	196	277	333	351	158
85°	37	52	64	66	71	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	887.9	887.9	887.9	887.9	887.9
2.5°	881.7	883.8	887.9	887.9	890.0
5°	879.6	881.7	885.9	885.9	885.9
7.5°	873.4	875.5	879.6	881.7	881.7
10°	867.2	869.2	873.4	875.5	877.5
12.5°	856.8	858.8	865.1	869.2	869.2
15°	846.4	848.4	854.7	858.8	860.9
17.5°	833.9	838.0	844.3	848.4	850.5
20°	817.2	821.4	829.7	836.0	838.0
22.5°	802.7	806.8	815.2	821.4	825.6
25°	786.1	790.2	802.7	806.8	811.0
27.5°	765.3	769.4	779.8	788.1	794.4
30°	744.5	748.6	761.1	771.5	775.7
32.5°	721.6	727.8	742.4	750.7	756.9
35°	696.6	702.9	717.4	732.0	738.2
37.5°	671.7	677.9	692.5	711.2	719.5
40°	642.6	650.9	669.6	694.6	698.7
42.5°	615.5	625.9	642.6	671.7	682.1
45°	584.3	594.7	617.6	648.8	665.4
47.5°	555.2	565.6	590.6	628.0	648.8
50°	519.9	534.4	565.6	609.3	630.1
52.5°	486.6	499.1	540.7	588.5	613.5
55°	451.3	465.8	515.7	567.7	594.7
57.5°	420.1	432.5	488.7	546.9	578.1
60°	380.5	397.2	461.6	524.0	555.2
62.5°	339.0	363.9	434.6	499.1	532.4
65°	299.4	328.6	409.7	474.1	507.4
67.5°	264.1	295.3	378.5	447.1	478.3
70°	222.5	262.0	347.3	413.8	449.2
72.5°	185.1	228.7	311.9	378.5	409.7
75°	147.6	195.5	276.6	332.7	351.4
77.5°	114.4	160.1	237.1	253.7	255.8
80°	85.3	126.8	176.8	178.8	185.1
82.5°	58.2	89.4	114.4	124.8	126.8
85°	37.4	52.0	64.5	66.5	70.7
87.5°	16.6	18.7	22.9	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)