

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: P390265

Luminaire Tested: **22CZ2-34VHE-HRP-UNV-L935-CD1-SWPD1-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: P390265
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: 22CZ2-34VHE-HRP-UNV-L935-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND HRP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2550.1 lumens
Efficiency: N/A
Efficacy: 101.6 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

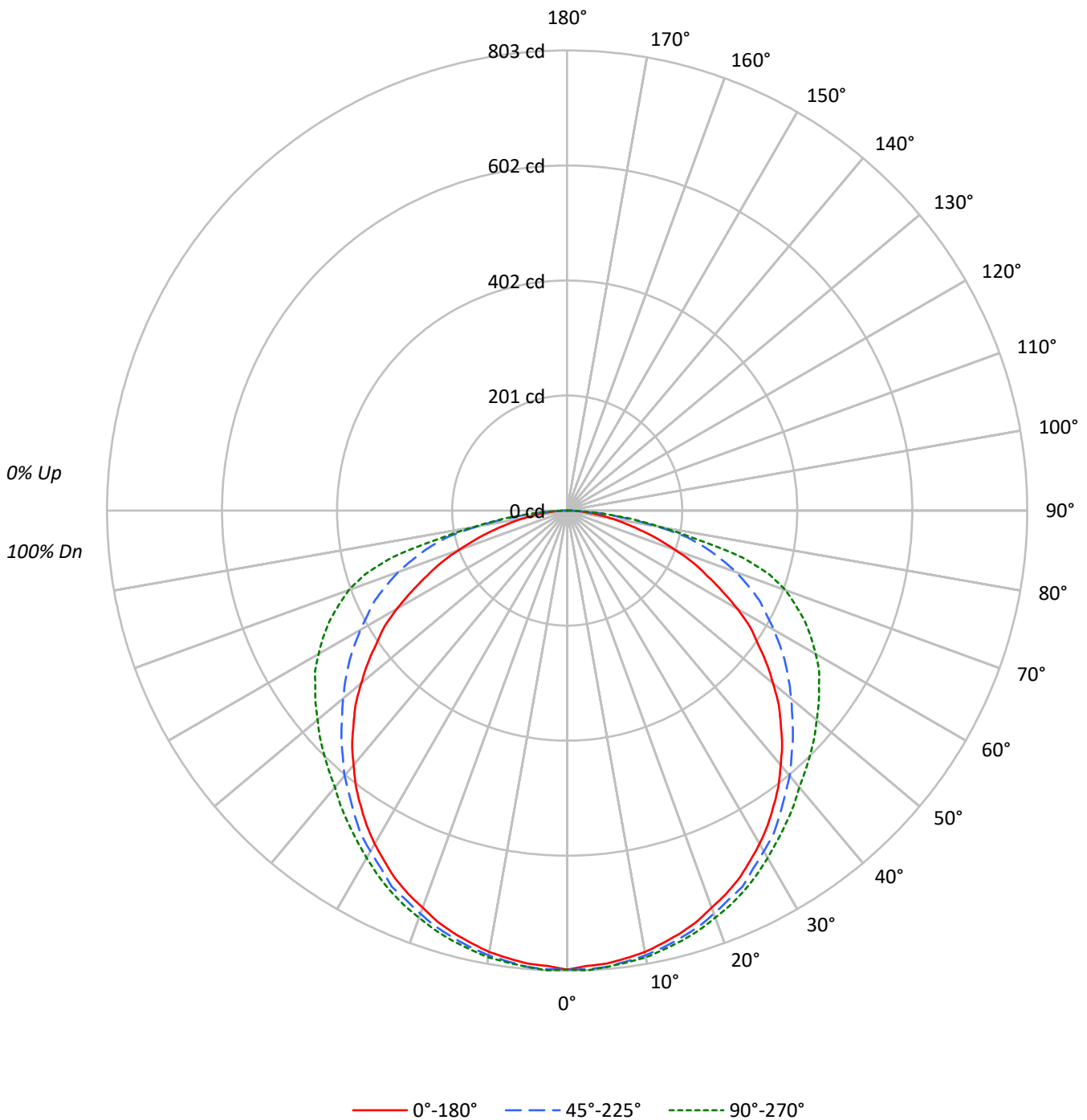
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2155	2155	2155
5°	2143	2159	2159
10°	2138	2153	2163
15°	2127	2148	2164
20°	2111	2143	2165
25°	2105	2150	2172
30°	2087	2133	2174
35°	2064	2126	2188
40°	2036	2122	2214
45°	2006	2120	2285
50°	1963	2136	2380
55°	1910	2183	2517
60°	1848	2242	2696
65°	1720	2353	2914
70°	1579	2465	3188
75°	1385	2594	3296
80°	1192	2472	2588
85°	1044	1797	1970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.0
10°-20°	217.6	8.5
20°-30°	331.9	13.0
30°-40°	405.3	15.9
40°-50°	433.4	17.0
50°-60°	418.3	16.4
60°-70°	360.1	14.1
70°-80°	243.6	9.6
80°-90°	64.3	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°	625.3	24.5
0°-40°	1030.5	40.4
0°-60°	1882.2	73.8
0°-90°	2550.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	794	795	799	799	799	75
15°	764	765	771	775	777	215
25°	709	713	724	728	732	326
35°	628	634	647	660	666	393
45°	527	536	557	585	600	407
55°	407	420	465	512	536	365
65°	270	296	370	428	458	269
75°	133	176	250	300	317	143
85°	34	47	58	60	64	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	801.0	801.0	801.0	801.0	801.0
2.5°	795.4	797.3	801.0	801.0	802.9
5°	793.5	795.4	799.2	799.2	799.2
7.5°	787.9	789.8	793.5	795.4	795.4
10°	782.3	784.1	787.9	789.8	791.7
12.5°	772.9	774.8	780.4	784.1	784.1
15°	763.5	765.4	771.0	774.8	776.6
17.5°	752.3	756.0	761.6	765.4	767.3
20°	737.2	741.0	748.5	754.1	756.0
22.5°	724.1	727.9	735.4	741.0	744.8
25°	709.1	712.9	724.1	727.9	731.6
27.5°	690.3	694.1	703.5	711.0	716.6
30°	671.6	675.3	686.6	696.0	699.7
32.5°	651.0	656.6	669.7	677.2	682.8
35°	628.4	634.1	647.2	660.3	666.0
37.5°	605.9	611.6	624.7	641.6	649.1
40°	579.7	587.2	604.1	626.6	630.3
42.5°	555.3	564.7	579.7	605.9	615.3
45°	527.1	536.5	557.2	585.3	600.3
47.5°	500.9	510.3	532.8	566.5	585.3
50°	469.0	482.1	510.3	549.7	568.4
52.5°	439.0	450.2	487.7	530.9	553.4
55°	407.1	420.2	465.2	512.1	536.5
57.5°	378.9	390.2	440.8	493.4	521.5
60°	343.3	358.3	416.5	472.7	500.9
62.5°	305.8	328.3	392.1	450.2	480.2
65°	270.1	296.4	369.6	427.7	457.7
67.5°	238.2	266.4	341.4	403.3	431.5
70°	200.7	236.4	313.3	373.3	405.2
72.5°	167.0	206.4	281.4	341.4	369.6
75°	133.2	176.3	249.5	300.2	317.0
77.5°	103.2	144.4	213.9	228.9	230.7
80°	76.9	114.4	159.5	161.3	167.0
82.5°	52.5	80.7	103.2	112.6	114.4
85°	33.8	46.9	58.2	60.0	63.8
87.5°	15.0	16.9	20.6	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)