

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: P390292

Luminaire Tested: **22CZ2-34VHE-RDP-UNV-L940-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: P390292
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-RDP-UNV-L940-CD1-SWPD1-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: 2041.5 lumens
Efficiency: N/A
Efficacy: 81.3 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

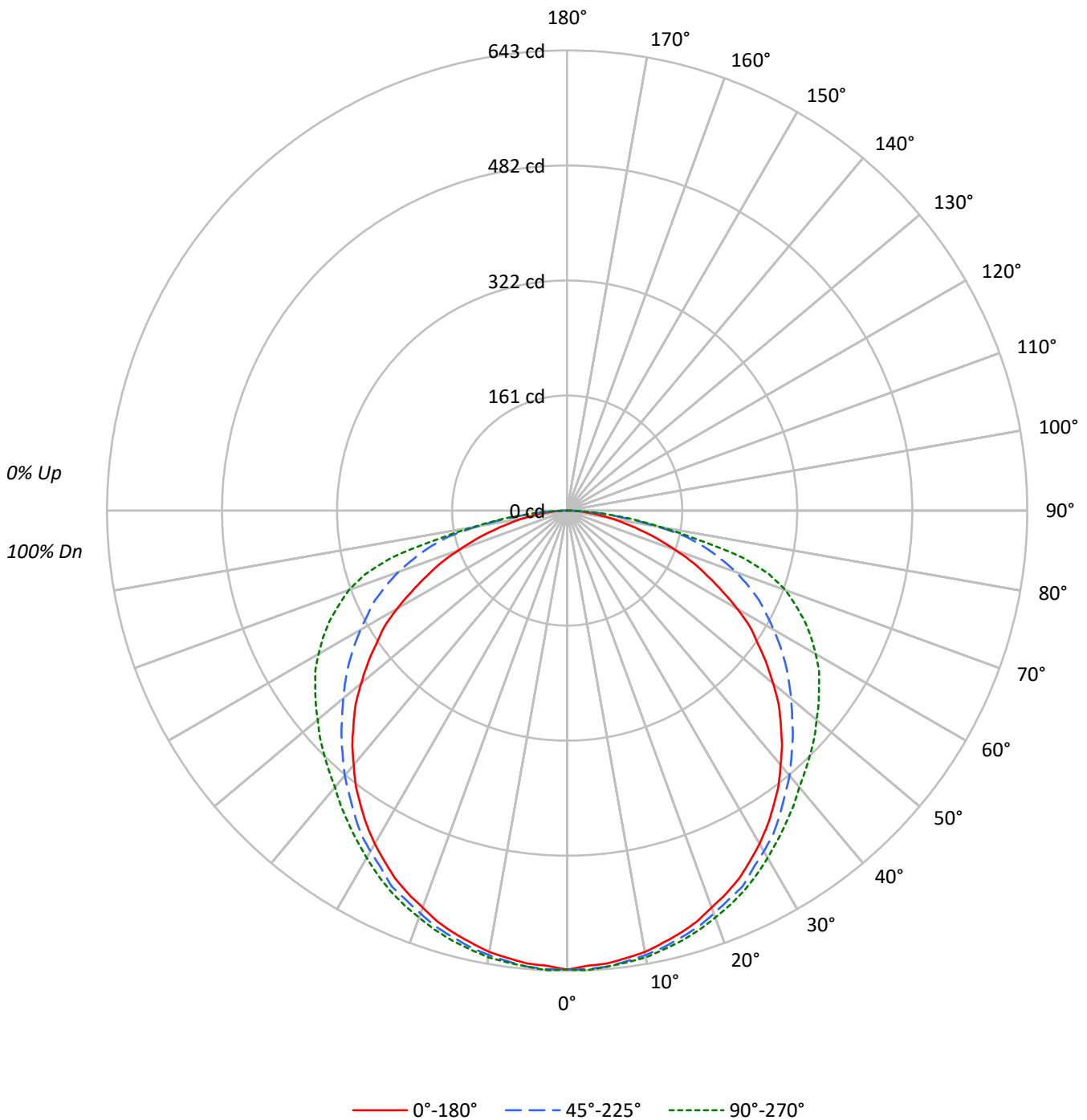
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1726	1726	1726
5°	1716	1728	1728
10°	1711	1724	1732
15°	1703	1719	1732
20°	1690	1716	1733
25°	1686	1721	1739
30°	1670	1708	1741
35°	1653	1702	1751
40°	1630	1699	1773
45°	1606	1697	1829
50°	1572	1710	1905
55°	1529	1747	2015
60°	1479	1794	2158
65°	1377	1884	2333
70°	1264	1973	2552
75°	1108	2076	2639
80°	955	1979	2072
85°	834	1439	1578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	3.0
10°-20°	174.2	8.5
20°-30°	265.7	13.0
30°-40°	324.5	15.9
40°-50°	346.9	17.0
50°-60°	334.8	16.4
60°-70°	288.3	14.1
70°-80°	195.0	9.6
80°-90°	51.5	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°	500.6	24.5
0°-40°	825.0	40.4
0°-60°	1506.8	73.8
0°-90°	2041.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2041.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	635	637	640	640	640	60
15°	611	613	617	620	622	172
25°	568	571	580	583	586	261
35°	503	508	518	529	533	315
45°	422	430	446	469	481	326
55°	326	336	372	410	430	292
65°	216	237	296	342	366	215
75°	107	141	200	240	254	114
85°	27	38	47	48	51	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	641.3	641.3	641.3	641.3	641.3
2.5°	636.8	638.3	641.3	641.3	642.8
5°	635.3	636.8	639.8	639.8	639.8
7.5°	630.8	632.3	635.3	636.8	636.8
10°	626.3	627.8	630.8	632.3	633.8
12.5°	618.7	620.2	624.8	627.8	627.8
15°	611.2	612.7	617.2	620.2	621.7
17.5°	602.2	605.2	609.7	612.7	614.2
20°	590.2	593.2	599.2	603.7	605.2
22.5°	579.7	582.7	588.7	593.2	596.2
25°	567.7	570.7	579.7	582.7	585.7
27.5°	552.7	555.7	563.2	569.2	573.7
30°	537.6	540.6	549.7	557.2	560.2
32.5°	521.1	525.6	536.1	542.2	546.7
35°	503.1	507.6	518.1	528.6	533.1
37.5°	485.1	489.6	500.1	513.6	519.6
40°	464.1	470.1	483.6	501.6	504.6
42.5°	444.5	452.0	464.1	485.1	492.6
45°	422.0	429.5	446.0	468.6	480.6
47.5°	401.0	408.5	426.5	453.5	468.6
50°	375.5	386.0	408.5	440.0	455.0
52.5°	351.4	360.4	390.5	425.0	443.0
55°	325.9	336.4	372.4	410.0	429.5
57.5°	303.4	312.4	352.9	395.0	417.5
60°	274.8	286.8	333.4	378.5	401.0
62.5°	244.8	262.8	313.9	360.4	384.5
65°	216.3	237.3	295.9	342.4	366.4
67.5°	190.7	213.3	273.3	322.9	345.4
70°	160.7	189.2	250.8	298.9	324.4
72.5°	133.7	165.2	225.3	273.3	295.9
75°	106.6	141.2	199.7	240.3	253.8
77.5°	82.6	115.6	171.2	183.2	184.7
80°	61.6	91.6	127.7	129.2	133.7
82.5°	42.1	64.6	82.6	90.1	91.6
85°	27.0	37.5	46.6	48.1	51.1
87.5°	12.0	13.5	16.5	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)