

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: P387874

Luminaire Tested: **22CZ2-34HE-SQR-UNV-L950-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: P387874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-542-6)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34HE-SQR-UNV-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2911.9 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

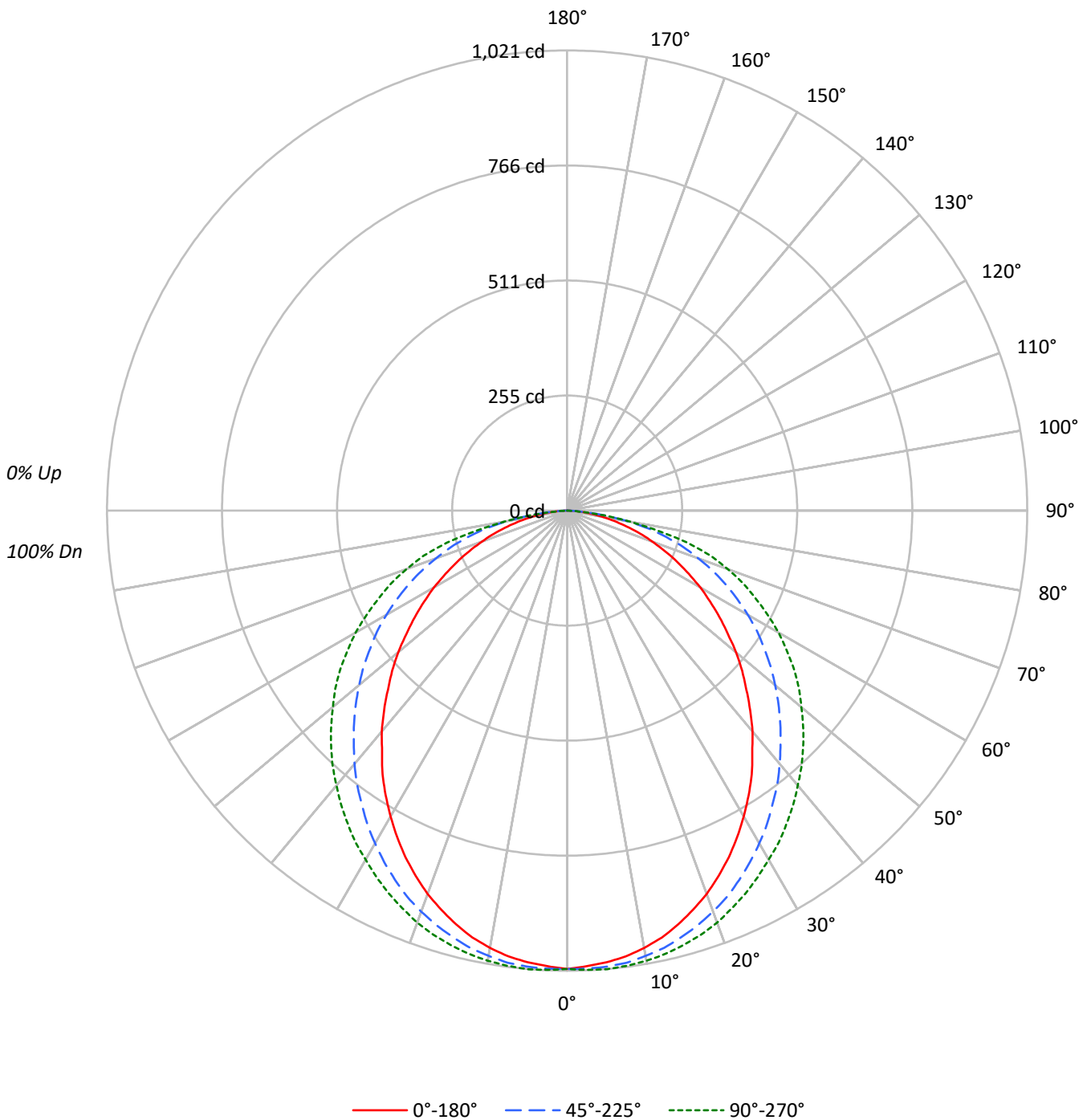
Input Watts (W): 25.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2737	2737	2737
5°	2718	2744	2759
10°	2693	2742	2772
15°	2649	2730	2780
20°	2592	2711	2786
25°	2520	2684	2782
30°	2435	2650	2779
35°	2347	2611	2788
40°	2248	2578	2797
45°	2141	2546	2819
50°	2048	2523	2841
55°	1939	2503	2885
60°	1837	2492	2916
65°	1716	2473	2939
70°	1577	2436	2980
75°	1422	2371	2874
80°	1221	2098	2163
85°	982	1238	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.3
10°-20°	275.7	9.5
20°-30°	414.1	14.2
30°-40°	493.9	17.0
40°-50°	510.6	17.5
50°-60°	469.5	16.1
60°-70°	373.8	12.8
70°-80°	228.3	7.8
80°-90°	49.6	1.7
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°	786.3	27.0
0°-40°	1280.1	44.0
0°-60°	2260.2	77.6
0°-90°	2911.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2911.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1006	1009	1016	1020	1021	95
15°	951	962	980	994	998	268
25°	849	869	904	929	937	390
35°	714	745	795	836	849	446
45°	562	603	669	723	741	435
55°	413	459	534	594	615	370
65°	270	315	388	442	462	267
75°	137	177	228	268	276	146
85°	32	39	40	35	32	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1017.2	1017.2	1017.2	1017.2	1017.2
2.5°	1011.7	1013.1	1017.2	1020.0	1020.0
5°	1006.1	1008.9	1015.8	1020.0	1021.3
7.5°	997.8	1002.0	1011.7	1017.2	1018.6
10°	985.4	990.9	1003.4	1011.7	1014.4
12.5°	970.2	978.5	993.7	1004.8	1007.5
15°	950.9	961.9	979.9	993.7	997.8
17.5°	928.7	942.6	964.7	981.3	986.8
20°	905.2	919.1	946.7	966.1	973.0
22.5°	877.6	895.6	927.4	949.5	955.0
25°	848.6	869.3	903.9	928.7	937.0
27.5°	816.8	841.7	879.0	909.4	916.3
30°	783.6	809.9	852.7	885.9	894.2
32.5°	749.1	779.5	825.1	862.4	873.5
35°	714.5	744.9	794.7	836.1	848.6
37.5°	674.4	710.4	765.7	808.5	823.7
40°	639.9	674.4	733.9	780.9	796.1
42.5°	601.2	638.5	700.7	751.8	769.8
45°	562.5	602.6	668.9	722.8	740.8
47.5°	526.6	566.6	635.7	692.4	710.4
50°	489.2	530.7	602.6	660.6	678.6
52.5°	449.2	494.8	569.4	627.5	648.2
55°	413.2	458.8	533.5	594.3	615.0
57.5°	375.9	422.9	500.3	558.4	577.7
60°	341.4	387.0	463.0	519.7	541.8
62.5°	304.1	351.0	425.7	481.0	501.7
65°	269.5	315.1	388.4	442.3	461.6
67.5°	235.0	280.6	349.7	400.8	422.9
70°	200.4	246.0	309.6	359.3	378.7
72.5°	170.0	210.1	270.9	316.5	334.5
75°	136.8	176.9	228.0	268.1	276.4
77.5°	106.4	142.4	185.2	203.2	205.9
80°	78.8	106.4	135.4	139.6	139.6
82.5°	52.5	73.2	84.3	85.7	84.3
85°	31.8	38.7	40.1	34.6	31.8
87.5°	11.1	11.1	6.9	4.1	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)