

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: P389215

Luminaire Tested: **22CZ2-34VHE-S-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: P389215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-S-UNV-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3385.3 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

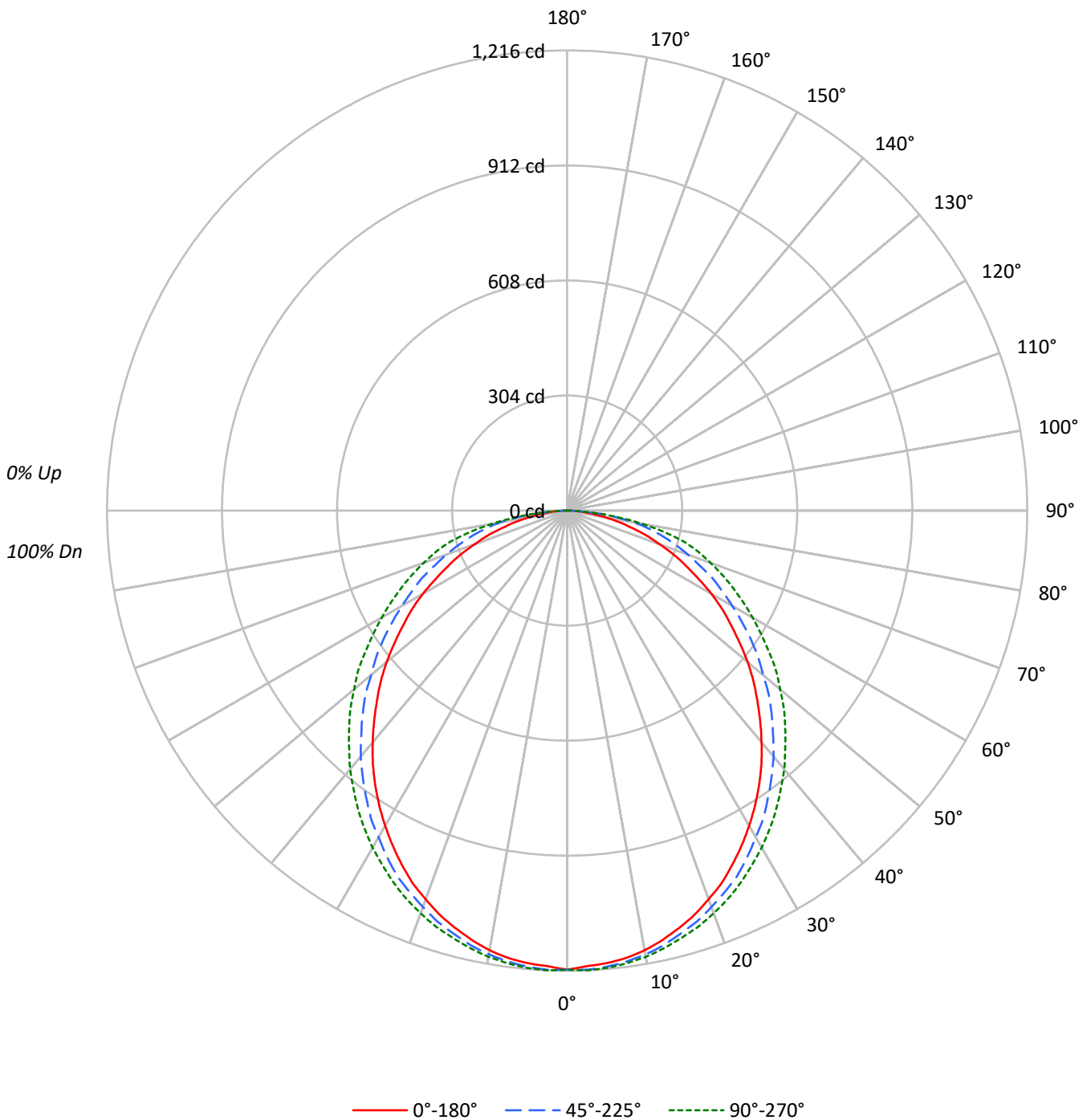
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3264	3264	3264
5°	3243	3268	3277
10°	3224	3254	3272
15°	3182	3226	3256
20°	3130	3193	3243
25°	3067	3161	3222
30°	2989	3097	3195
35°	2906	3041	3165
40°	2807	2980	3135
45°	2705	2909	3102
50°	2605	2830	3075
55°	2482	2779	3053
60°	2372	2712	3043
65°	2213	2695	3077
70°	2038	2672	3169
75°	1839	2709	3333
80°	1592	2791	3133
85°	1315	2340	2340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	3.4
10°-20°	326.5	9.6
20°-30°	488.5	14.4
30°-40°	578.5	17.1
40°-50°	589.5	17.4
50°-60°	528.4	15.6
60°-70°	413.7	12.2
70°-80°	266.7	7.9
80°-90°	78.8	2.3
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°	929.7	27.5
0°-40°	1508.1	44.5
0°-60°	2626.1	77.6
0°-90°	3385.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3385.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1200	1204	1210	1212	1213	114
15°	1142	1148	1158	1167	1169	322
25°	1033	1042	1065	1079	1085	476
35°	884	896	926	954	964	553
45°	711	727	764	804	815	549
55°	529	546	592	633	651	474
65°	348	368	423	464	483	345
75°	177	204	261	305	321	190
85°	43	58	76	76	76	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.1	1213.1	1213.1	1213.1	1213.1
2.5°	1205.2	1208.3	1214.6	1216.2	1216.2
5°	1200.4	1203.6	1209.9	1211.5	1213.1
7.5°	1192.5	1194.1	1202.0	1205.2	1206.7
10°	1179.9	1183.0	1190.9	1195.7	1197.3
12.5°	1162.5	1167.3	1176.7	1183.0	1184.6
15°	1142.0	1148.3	1157.8	1167.3	1168.8
17.5°	1119.9	1126.2	1138.8	1149.9	1153.0
20°	1093.0	1100.9	1115.1	1127.8	1132.5
22.5°	1066.2	1072.5	1089.9	1105.7	1110.4
25°	1033.0	1042.5	1064.6	1078.8	1085.1
27.5°	998.2	1009.3	1031.4	1050.4	1056.7
30°	961.9	973.0	996.7	1020.4	1028.3
32.5°	924.0	936.6	965.1	988.8	996.7
35°	884.5	895.6	925.6	954.0	963.5
37.5°	843.5	852.9	887.7	917.7	927.2
40°	799.2	811.9	848.2	882.9	892.4
42.5°	755.0	769.2	805.5	843.5	852.9
45°	710.8	726.6	764.5	804.0	815.0
47.5°	668.1	680.8	723.4	761.3	777.1
50°	622.3	635.0	676.0	718.7	734.5
52.5°	574.9	592.3	636.5	677.6	696.6
55°	529.1	546.5	592.3	633.4	650.8
57.5°	486.5	500.7	548.1	590.7	608.1
60°	440.7	453.3	503.9	549.7	565.5
62.5°	391.7	410.7	462.8	505.4	524.4
65°	347.5	368.0	423.3	464.4	483.3
67.5°	306.4	325.4	379.1	423.3	443.8
70°	259.0	284.3	339.6	383.8	402.8
72.5°	221.1	243.2	300.1	344.3	364.9
75°	176.9	203.8	260.6	304.8	320.6
77.5°	140.6	167.4	221.1	255.9	263.8
80°	102.7	129.5	180.1	197.4	202.2
82.5°	69.5	94.8	129.5	134.3	135.8
85°	42.6	58.4	75.8	75.8	75.8
87.5°	20.5	23.7	26.9	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)