

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: P390584

Luminaire Tested: **22CZ2-65VHE-RDP-UNV-L950-CD1-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: P390584
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: 22CZ2-65VHE-RDP-UNV-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3999.8 lumens
Efficiency: N/A
Efficacy: 83.5 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

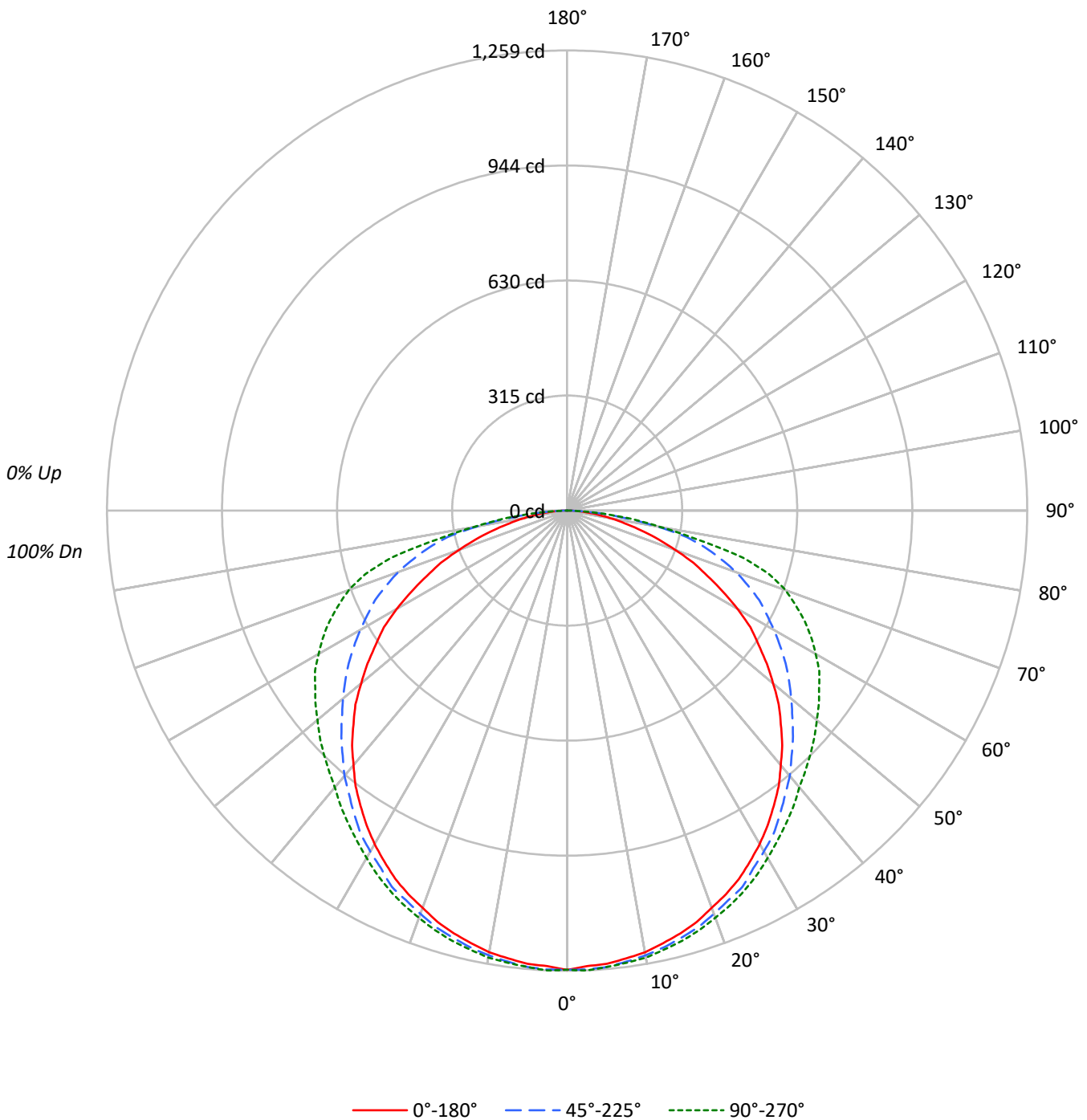
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3381	3381	3381
5°	3362	3386	3386
10°	3353	3377	3393
15°	3336	3369	3394
20°	3312	3362	3396
25°	3302	3372	3407
30°	3273	3346	3410
35°	3238	3335	3432
40°	3194	3328	3473
45°	3146	3326	3583
50°	3080	3350	3732
55°	2996	3423	3948
60°	2898	3515	4228
65°	2698	3691	4571
70°	2477	3866	5001
75°	2172	4068	5170
80°	1869	3876	4059
85°	1636	2816	3088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.0
10°-20°	341.2	8.5
20°-30°	520.6	13.0
30°-40°	635.7	15.9
40°-50°	679.7	17.0
50°-60°	656.1	16.4
60°-70°	564.8	14.1
70°-80°	382.1	9.6
80°-90°	100.8	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°	980.7	24.5
0°-40°	1616.4	40.4
0°-60°	2952.1	73.8
0°-90°	3999.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1245	1248	1254	1254	1254	118
15°	1198	1200	1209	1215	1218	338
25°	1112	1118	1136	1142	1148	512
35°	986	994	1015	1036	1045	617
45°	827	842	874	918	942	638
55°	638	659	730	803	842	572
65°	424	465	580	671	718	421
75°	209	277	391	471	497	224
85°	53	74	91	94	100	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.4	1256.4	1256.4	1256.4	1256.4
2.5°	1247.6	1250.5	1256.4	1256.4	1259.3
5°	1244.6	1247.6	1253.5	1253.5	1253.5
7.5°	1235.8	1238.8	1244.6	1247.6	1247.6
10°	1227.0	1229.9	1235.8	1238.8	1241.7
12.5°	1212.3	1215.2	1224.0	1229.9	1229.9
15°	1197.6	1200.5	1209.3	1215.2	1218.2
17.5°	1179.9	1185.8	1194.6	1200.5	1203.4
20°	1156.4	1162.2	1174.0	1182.8	1185.8
22.5°	1135.8	1141.7	1153.4	1162.2	1168.1
25°	1112.2	1118.1	1135.8	1141.7	1147.5
27.5°	1082.8	1088.7	1103.4	1115.2	1124.0
30°	1053.4	1059.3	1076.9	1091.6	1097.5
32.5°	1021.0	1029.8	1050.4	1062.2	1071.0
35°	985.7	994.5	1015.1	1035.7	1044.6
37.5°	950.4	959.2	979.8	1006.3	1018.1
40°	909.2	921.0	947.5	982.8	988.6
42.5°	871.0	885.7	909.2	950.4	965.1
45°	826.8	841.5	873.9	918.0	941.6
47.5°	785.6	800.3	835.6	888.6	918.0
50°	735.6	756.2	800.3	862.1	891.5
52.5°	688.5	706.2	765.0	832.7	868.0
55°	638.5	659.1	729.7	803.3	841.5
57.5°	594.4	612.0	691.5	773.9	818.0
60°	538.5	562.0	653.2	741.5	785.6
62.5°	479.6	514.9	615.0	706.2	753.3
65°	423.7	464.9	579.7	670.9	717.9
67.5°	373.7	417.8	535.5	632.6	676.8
70°	314.8	370.7	491.4	585.5	635.6
72.5°	261.9	323.7	441.4	535.5	579.7
75°	208.9	276.6	391.3	470.8	497.3
77.5°	161.8	226.6	335.4	359.0	361.9
80°	120.6	179.5	250.1	253.0	261.9
82.5°	82.4	126.5	161.8	176.5	179.5
85°	53.0	73.6	91.2	94.2	100.0
87.5°	23.5	26.5	32.4	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)