

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: P390583

Luminaire Tested: **22CZ2-65VHE-RDP-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: P390583  
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-SWPD1-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: 3950.2 lumens  
Efficiency: N/A  
Efficacy: 82.5 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

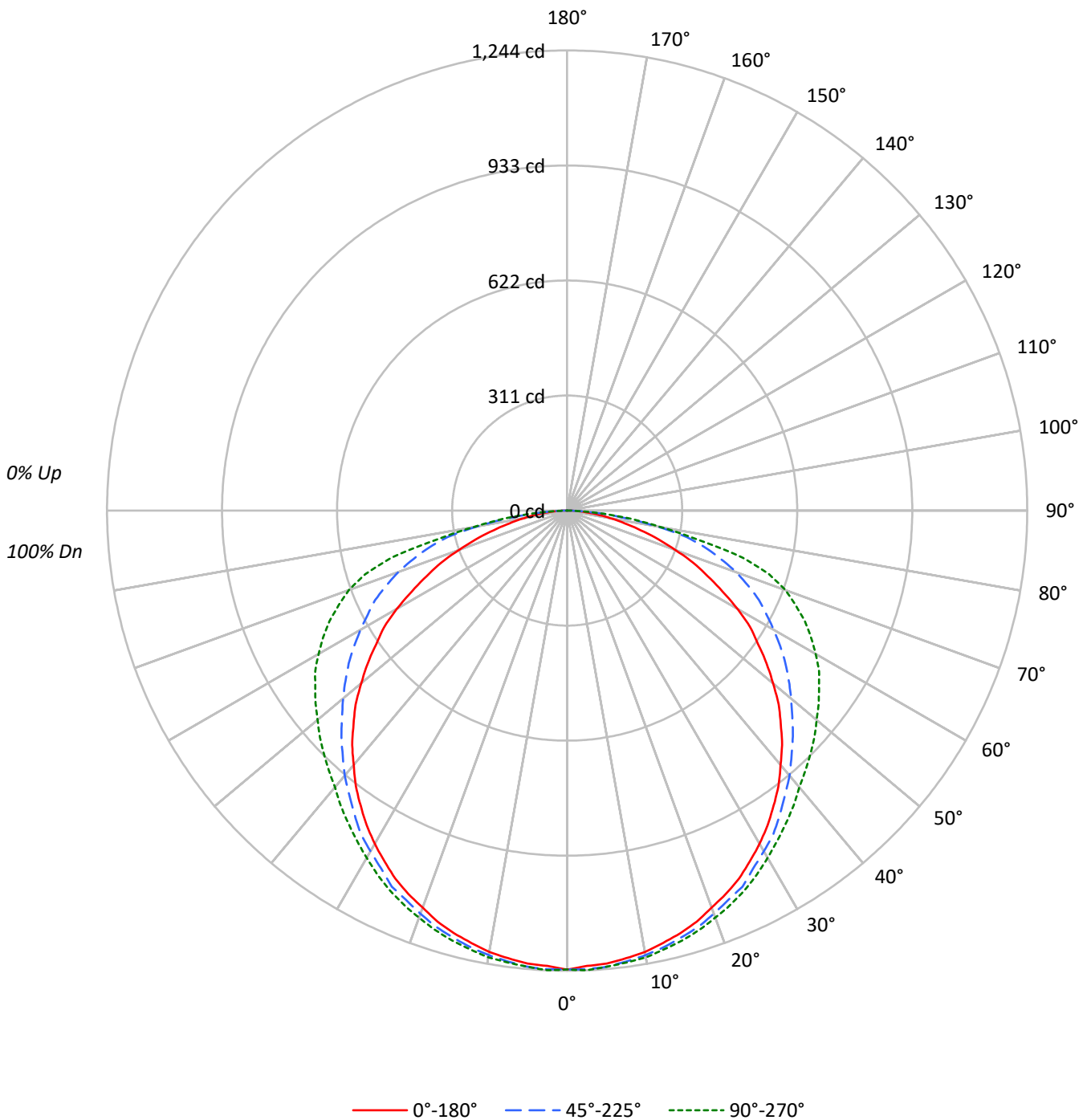
Input Watts (W): 47.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P390583

CATALOG NUMBER: 22CZ2-65VHE-RDP-UNV-L950-CD1-SWPD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P390583

CATALOG NUMBER: 22CZ2-65VHE-RDP-UNV-L950-CD1-SWPD1-U

**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°	3339	3339	3339
5°	3320	3344	3344
10°	3311	3335	3351
15°	3295	3327	3351
20°	3270	3320	3354
25°	3261	3331	3365
30°	3232	3305	3368
35°	3198	3293	3389
40°	3154	3287	3430
45°	3108	3285	3539
50°	3041	3309	3686
55°	2959	3381	3899
60°	2862	3472	4176
65°	2665	3645	4514
70°	2446	3818	4939
75°	2145	4018	5106
80°	1846	3828	4007
85°	1615	2782	3051



TEST NUMBER: P390583

CATALOG NUMBER: 22CZ2-65VHE-RDP-UNV-L950-CD1-SWPD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.4	3.0
10°-20°	337.0	8.5
20°-30°	514.2	13.0
30°-40°	627.8	15.9
40°-50°	671.3	17.0
50°-60°	647.9	16.4
60°-70°	557.7	14.1
70°-80°	377.4	9.6
80°-90°	99.6	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°	968.5	24.5
0°-40°	1596.3	40.4
0°-60°	2915.5	73.8
0°-90°	3950.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3950.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1229	1232	1238	1238	1238	117
15°	1183	1186	1194	1200	1203	334
25°	1098	1104	1122	1128	1133	506
35°	974	982	1002	1023	1032	609
45°	817	831	863	907	930	630
55°	631	651	721	793	831	565
65°	418	459	572	662	709	416
75°	206	273	386	465	491	221
85°	52	73	90	93	99	59
90°	0	0	0	0	0	



TEST NUMBER: P390583

CATALOG NUMBER: 22CZ2-65VHE-RDP-UNV-L950-CD1-SWPD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1240.8	1240.8	1240.8	1240.8	1240.8
2.5°	1232.1	1235.0	1240.8	1240.8	1243.7
5°	1229.2	1232.1	1237.9	1237.9	1237.9
7.5°	1220.5	1223.4	1229.2	1232.1	1232.1
10°	1211.8	1214.7	1220.5	1223.4	1226.3
12.5°	1197.2	1200.1	1208.9	1214.7	1214.7
15°	1182.7	1185.6	1194.3	1200.1	1203.0
17.5°	1165.3	1171.1	1179.8	1185.6	1188.5
20°	1142.0	1147.8	1159.5	1168.2	1171.1
22.5°	1121.7	1127.5	1139.1	1147.8	1153.6
25°	1098.4	1104.2	1121.7	1127.5	1133.3
27.5°	1069.4	1075.2	1089.7	1101.3	1110.1
30°	1040.3	1046.1	1063.6	1078.1	1083.9
32.5°	1008.4	1017.1	1037.4	1049.0	1057.8
35°	973.5	982.2	1002.5	1022.9	1031.6
37.5°	938.6	947.3	967.7	993.8	1005.4
40°	897.9	909.6	935.7	970.6	976.4
42.5°	860.2	874.7	897.9	938.6	953.1
45°	816.6	831.1	863.1	906.6	929.9
47.5°	775.9	790.4	825.3	877.6	906.6
50°	726.5	746.8	790.4	851.4	880.5
52.5°	680.0	697.4	755.5	822.4	857.2
55°	630.6	650.9	720.7	793.3	831.1
57.5°	587.0	604.4	682.9	764.3	807.8
60°	531.8	555.0	645.1	732.3	775.9
62.5°	473.7	508.5	607.3	697.4	743.9
65°	418.5	459.1	572.5	662.5	709.0
67.5°	369.1	412.6	528.9	624.8	668.4
70°	310.9	366.1	485.3	578.3	627.7
72.5°	258.6	319.7	435.9	528.9	572.5
75°	206.3	273.2	386.5	464.9	491.1
77.5°	159.8	223.8	331.3	354.5	357.4
80°	119.1	177.3	247.0	249.9	258.6
82.5°	81.4	125.0	159.8	174.4	177.3
85°	52.3	72.6	90.1	93.0	98.8
87.5°	23.2	26.2	32.0	29.1	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)