

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: P390390

Luminaire Tested: **22CZ2-44VHE-RDP-UNV-L950-CD1-SDWPD1-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: P390390  
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: 22CZ2-44VHE-RDP-UNV-L950-CD1-SDWPD1-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: 2748.8 lumens  
Efficiency: N/A  
Efficacy: 84.3 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

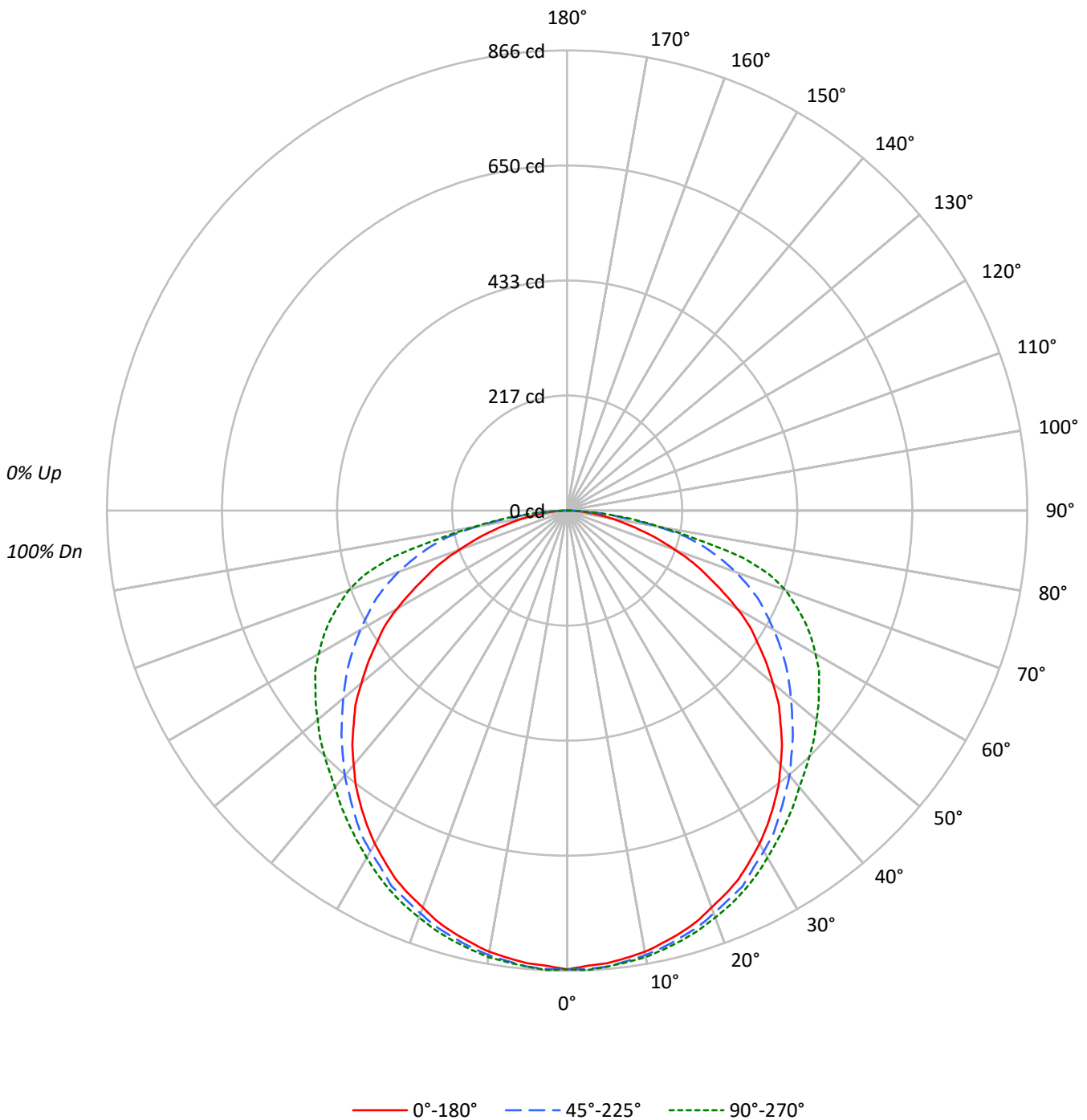
Input Watts (W): 32.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2323	2323	2323
5°	2311	2327	2327
10°	2304	2321	2332
15°	2293	2315	2332
20°	2276	2310	2334
25°	2270	2317	2341
30°	2249	2300	2344
35°	2225	2292	2358
40°	2195	2287	2387
45°	2162	2286	2463
50°	2116	2303	2565
55°	2059	2353	2713
60°	1991	2416	2906
65°	1854	2537	3142
70°	1703	2657	3437
75°	1493	2796	3553
80°	1285	2664	2789
85°	1124	1936	2124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.7	3.0
10°-20°	234.5	8.5
20°-30°	357.8	13.0
30°-40°	436.9	15.9
40°-50°	467.1	17.0
50°-60°	450.9	16.4
60°-70°	388.1	14.1
70°-80°	262.6	9.6
80°-90°	69.3	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°	674.0	24.5
0°-40°	1110.8	40.4
0°-60°	2028.8	73.8
0°-90°	2748.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	855	857	861	861	861	81
15°	823	825	831	835	837	232
25°	764	768	780	785	789	352
35°	677	684	698	712	718	424
45°	568	578	601	631	647	439
55°	439	453	502	552	578	393
65°	291	320	398	461	493	290
75°	144	190	269	324	342	154
85°	36	51	63	65	69	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	863.4	863.4	863.4	863.4	863.4
2.5°	857.4	859.4	863.4	863.4	865.5
5°	855.4	857.4	861.4	861.4	861.4
7.5°	849.3	851.3	855.4	857.4	857.4
10°	843.2	845.2	849.3	851.3	853.3
12.5°	833.1	835.1	841.2	845.2	845.2
15°	823.0	825.0	831.1	835.1	837.2
17.5°	810.9	814.9	821.0	825.0	827.0
20°	794.7	798.7	806.8	812.9	814.9
22.5°	780.5	784.6	792.7	798.7	802.8
25°	764.4	768.4	780.5	784.6	788.6
27.5°	744.1	748.2	758.3	766.4	772.5
30°	723.9	728.0	740.1	750.2	754.3
32.5°	701.7	707.7	721.9	730.0	736.1
35°	677.4	683.5	697.6	711.8	717.9
37.5°	653.1	659.2	673.4	691.6	699.7
40°	624.8	632.9	651.1	675.4	679.4
42.5°	598.5	608.7	624.8	653.1	663.3
45°	568.2	578.3	600.6	630.9	647.1
47.5°	539.9	550.0	574.3	610.7	630.9
50°	505.5	519.7	550.0	592.5	612.7
52.5°	473.2	485.3	525.8	572.3	596.5
55°	438.8	453.0	501.5	552.0	578.3
57.5°	408.5	420.6	475.2	531.8	562.1
60°	370.0	386.2	448.9	509.6	539.9
62.5°	329.6	353.9	422.6	485.3	517.7
65°	291.2	319.5	398.4	461.0	493.4
67.5°	256.8	287.1	368.0	434.8	465.1
70°	216.4	254.8	337.7	402.4	436.8
72.5°	180.0	222.4	303.3	368.0	398.4
75°	143.6	190.1	268.9	323.5	341.7
77.5°	111.2	155.7	230.5	246.7	248.7
80°	82.9	123.3	171.9	173.9	180.0
82.5°	56.6	87.0	111.2	121.3	123.3
85°	36.4	50.6	62.7	64.7	68.8
87.5°	16.2	18.2	22.2	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)