

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: P390679

Luminaire Tested: **22CZ2-75VHE-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: P390679
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: 22CZ2-75VHE-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: 4551.2 lumens
Efficiency: N/A
Efficacy: 83.2 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

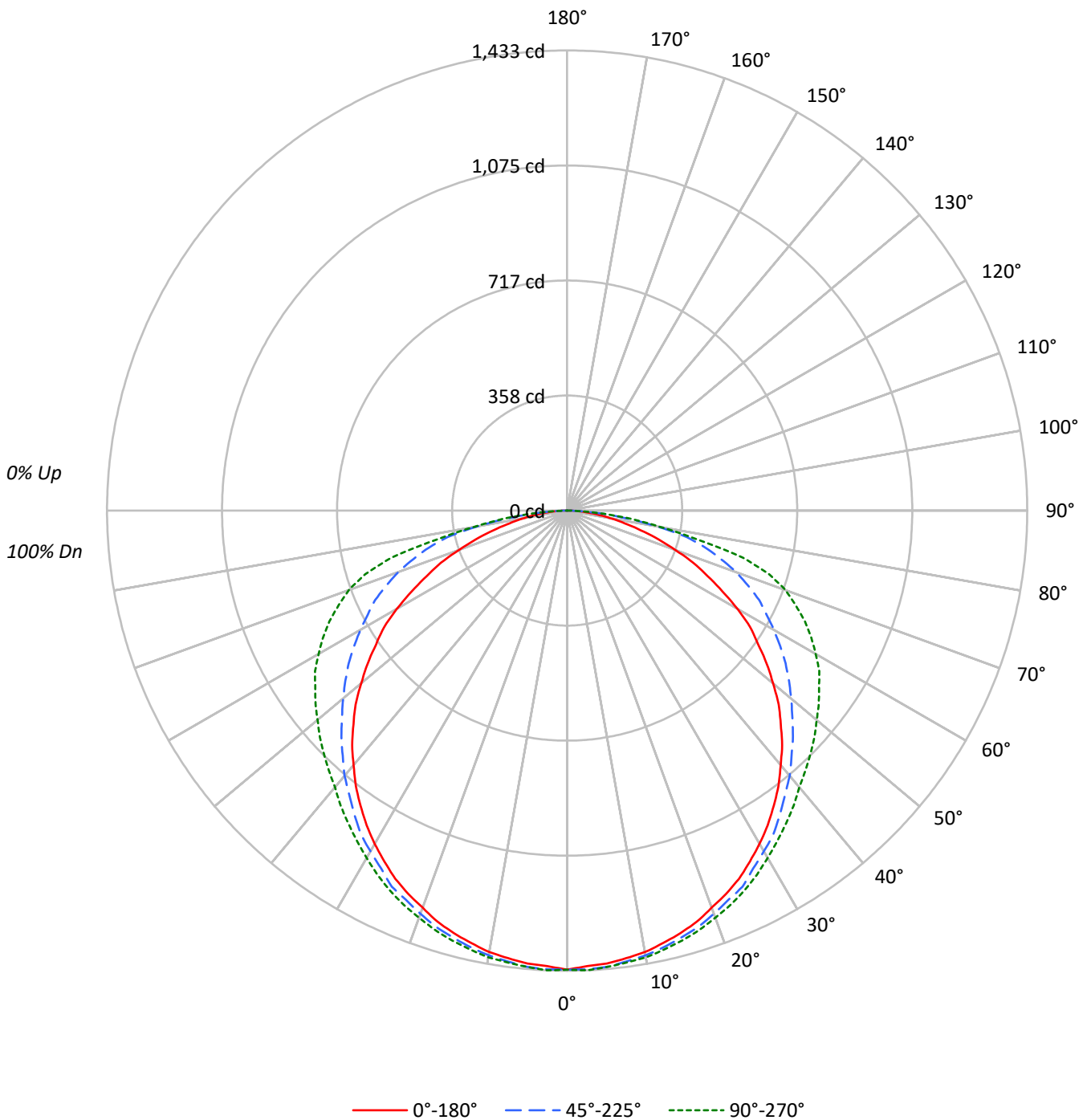
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3847	3847	3847
5°	3826	3853	3853
10°	3815	3842	3861
15°	3796	3833	3862
20°	3768	3826	3864
25°	3758	3837	3877
30°	3724	3808	3880
35°	3685	3795	3905
40°	3634	3787	3952
45°	3580	3784	4077
50°	3504	3813	4247
55°	3408	3895	4492
60°	3298	4000	4811
65°	3070	4200	5202
70°	2818	4399	5690
75°	2471	4630	5883
80°	2128	4410	4618
85°	1862	3205	3514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.0
10°-20°	388.3	8.5
20°-30°	592.4	13.0
30°-40°	723.3	15.9
40°-50°	773.4	17.0
50°-60°	746.5	16.4
60°-70°	642.6	14.1
70°-80°	434.8	9.6
80°-90°	114.7	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°	1115.9	24.5
0°-40°	1839.2	40.4
0°-60°	3359.1	73.8
0°-90°	4551.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4551.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1416	1420	1426	1426	1426	134
15°	1363	1366	1376	1383	1386	384
25°	1266	1272	1292	1299	1306	582
35°	1122	1132	1155	1178	1189	702
45°	941	958	994	1045	1071	726
55°	726	750	830	914	958	651
65°	482	529	660	763	817	479
75°	238	315	445	536	566	255
85°	60	84	104	107	114	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1419.6	1422.9	1429.6	1429.6	1433.0
5°	1416.2	1419.6	1426.3	1426.3	1426.3
7.5°	1406.2	1409.5	1416.2	1419.6	1419.6
10°	1396.1	1399.5	1406.2	1409.5	1412.9
12.5°	1379.4	1382.7	1392.8	1399.5	1399.5
15°	1362.7	1366.0	1376.0	1382.7	1386.1
17.5°	1342.6	1349.3	1359.3	1366.0	1369.3
20°	1315.8	1322.5	1335.9	1345.9	1349.3
22.5°	1292.3	1299.0	1312.4	1322.5	1329.2
25°	1265.6	1272.3	1292.3	1299.0	1305.7
27.5°	1232.1	1238.8	1255.5	1268.9	1278.9
30°	1198.6	1205.3	1225.4	1242.1	1248.8
32.5°	1161.8	1171.8	1195.2	1208.6	1218.7
35°	1121.6	1131.6	1155.1	1178.5	1188.6
37.5°	1081.4	1091.5	1114.9	1145.0	1158.4
40°	1034.5	1047.9	1078.1	1118.2	1124.9
42.5°	991.0	1007.8	1034.5	1081.4	1098.2
45°	940.8	957.5	994.4	1044.6	1071.4
47.5°	893.9	910.7	950.8	1011.1	1044.6
50°	837.0	860.4	910.7	981.0	1014.5
52.5°	783.4	803.5	870.5	947.5	987.7
55°	726.5	750.0	830.3	914.0	957.5
57.5°	676.3	696.4	786.8	880.5	930.8
60°	612.7	639.5	743.3	843.7	893.9
62.5°	545.7	585.9	699.7	803.5	857.1
65°	482.1	529.0	659.6	763.4	816.9
67.5°	425.2	475.4	609.3	719.8	770.0
70°	358.2	421.9	559.1	666.3	723.2
72.5°	298.0	368.3	502.2	609.3	659.6
75°	237.7	314.7	445.3	535.7	565.8
77.5°	184.1	257.8	381.7	408.5	411.8
80°	137.3	204.2	284.6	287.9	298.0
82.5°	93.7	144.0	184.1	200.9	204.2
85°	60.3	83.7	103.8	107.1	113.8
87.5°	26.8	30.1	36.8	33.5	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)