

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: P390678

Luminaire Tested: **22CZ2-75VHE-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: P390678
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-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: 4496.3 lumens
Efficiency: N/A
Efficacy: 82.2 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

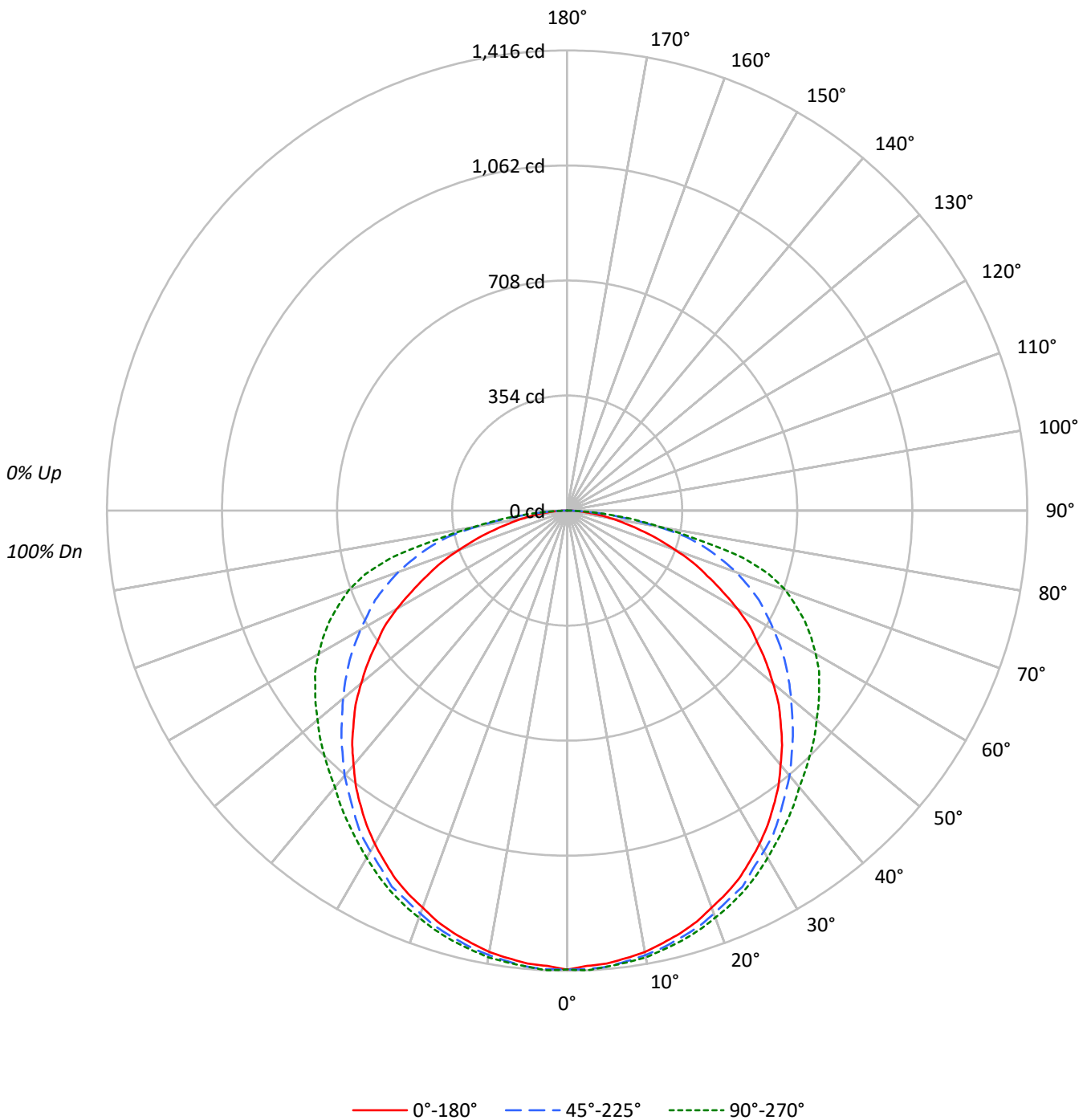
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3801	3801	3801
5°	3779	3806	3806
10°	3769	3796	3814
15°	3750	3787	3815
20°	3722	3779	3817
25°	3712	3791	3830
30°	3679	3762	3834
35°	3640	3749	3857
40°	3590	3742	3904
45°	3537	3739	4028
50°	3462	3767	4196
55°	3368	3849	4438
60°	3258	3952	4753
65°	3033	4149	5139
70°	2784	4346	5622
75°	2441	4574	5812
80°	2101	4358	4562
85°	1837	3165	3473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.0
10°-20°	383.6	8.5
20°-30°	585.2	13.0
30°-40°	714.6	15.9
40°-50°	764.1	17.0
50°-60°	737.5	16.4
60°-70°	634.8	14.1
70°-80°	429.5	9.6
80°-90°	113.3	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°	1102.4	24.5
0°-40°	1817.0	40.4
0°-60°	3318.6	73.8
0°-90°	4496.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4496.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1399	1402	1409	1409	1409	133
15°	1346	1350	1359	1366	1369	380
25°	1250	1257	1277	1283	1290	575
35°	1108	1118	1141	1164	1174	693
45°	929	946	982	1032	1058	717
55°	718	741	820	903	946	643
65°	476	523	652	754	807	474
75°	235	311	440	529	559	252
85°	60	83	102	106	112	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.4	1412.4	1412.4	1412.4	1412.4
2.5°	1402.4	1405.8	1412.4	1412.4	1415.7
5°	1399.1	1402.4	1409.1	1409.1	1409.1
7.5°	1389.2	1392.5	1399.1	1402.4	1402.4
10°	1379.3	1382.6	1389.2	1392.5	1395.8
12.5°	1362.8	1366.1	1376.0	1382.6	1382.6
15°	1346.2	1349.5	1359.4	1366.1	1369.4
17.5°	1326.4	1333.0	1342.9	1349.5	1352.8
20°	1299.9	1306.5	1319.8	1329.7	1333.0
22.5°	1276.8	1283.4	1296.6	1306.5	1313.1
25°	1250.3	1256.9	1276.8	1283.4	1290.0
27.5°	1217.2	1223.8	1240.4	1253.6	1263.5
30°	1184.1	1190.8	1210.6	1227.1	1233.8
32.5°	1147.8	1157.7	1180.8	1194.1	1204.0
35°	1108.1	1118.0	1141.1	1164.3	1174.2
37.5°	1068.4	1078.3	1101.4	1131.2	1144.4
40°	1022.1	1035.3	1065.1	1104.8	1111.4
42.5°	979.1	995.6	1022.1	1068.4	1084.9
45°	929.4	946.0	982.4	1032.0	1058.4
47.5°	883.1	899.7	939.4	998.9	1032.0
50°	826.9	850.1	899.7	969.1	1002.2
52.5°	774.0	793.8	860.0	936.1	975.8
55°	717.8	740.9	820.3	903.0	946.0
57.5°	668.1	688.0	777.3	869.9	919.5
60°	605.3	631.8	734.3	833.5	883.1
62.5°	539.1	578.8	691.3	793.8	846.8
65°	476.3	522.6	651.6	754.1	807.1
67.5°	420.1	469.7	602.0	711.1	760.8
70°	353.9	416.8	552.4	658.2	714.5
72.5°	294.4	363.8	496.1	602.0	651.6
75°	234.8	310.9	439.9	529.2	559.0
77.5°	181.9	254.7	377.1	403.5	406.8
80°	135.6	201.8	281.2	284.5	294.4
82.5°	92.6	142.2	181.9	198.5	201.8
85°	59.5	82.7	102.5	105.8	112.5
87.5°	26.5	29.8	36.4	33.1	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)