

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: P390680

Luminaire Tested: **22CZ2-75VHE-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: P390680
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-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: 4608.4 lumens
Efficiency: N/A
Efficacy: 84.2 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

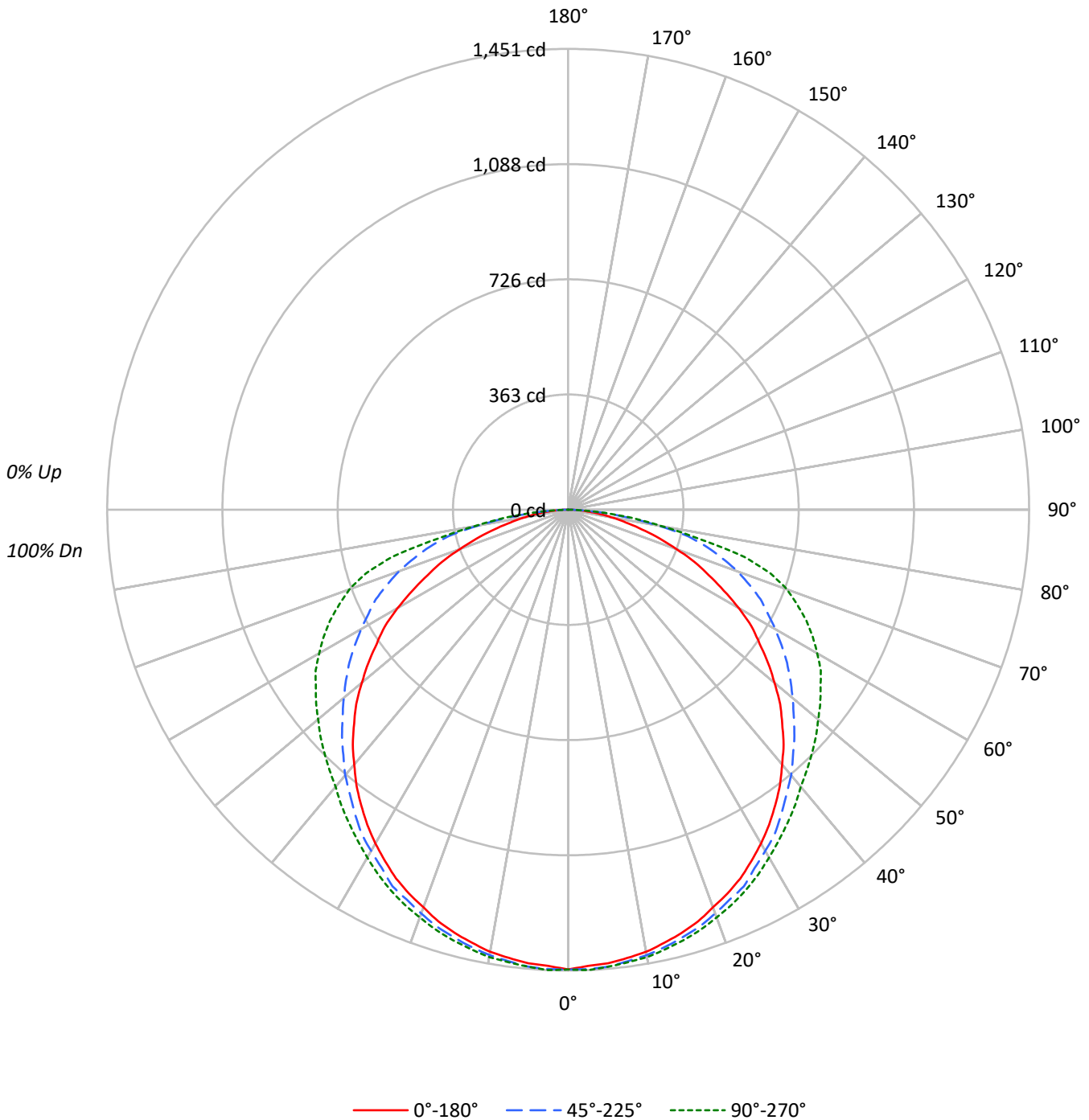
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3895	3895	3895
5°	3874	3901	3901
10°	3863	3891	3909
15°	3844	3882	3910
20°	3815	3874	3912
25°	3805	3885	3926
30°	3771	3856	3929
35°	3731	3842	3954
40°	3680	3835	4001
45°	3625	3832	4128
50°	3548	3860	4300
55°	3452	3944	4549
60°	3339	4050	4872
65°	3109	4253	5267
70°	2854	4454	5762
75°	2503	4688	5957
80°	2154	4466	4675
85°	1883	3245	3560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	3.0
10°-20°	393.2	8.5
20°-30°	599.8	13.0
30°-40°	732.4	15.9
40°-50°	783.1	17.0
50°-60°	755.9	16.4
60°-70°	650.7	14.1
70°-80°	440.2	9.6
80°-90°	116.2	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°	1129.9	24.5
0°-40°	1862.3	40.4
0°-60°	3401.3	73.8
0°-90°	4608.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4608.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1434	1437	1444	1444	1444	136
15°	1380	1383	1393	1400	1404	389
25°	1282	1288	1309	1315	1322	590
35°	1136	1146	1170	1193	1204	711
45°	953	970	1007	1058	1085	735
55°	736	759	841	926	970	659
65°	488	536	668	773	827	485
75°	241	319	451	542	573	258
85°	61	85	105	108	115	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.6	1447.6	1447.6	1447.6	1447.6
2.5°	1437.4	1440.8	1447.6	1447.6	1451.0
5°	1434.0	1437.4	1444.2	1444.2	1444.2
7.5°	1423.8	1427.2	1434.0	1437.4	1437.4
10°	1413.7	1417.1	1423.8	1427.2	1430.6
12.5°	1396.7	1400.1	1410.3	1417.1	1417.1
15°	1379.8	1383.2	1393.3	1400.1	1403.5
17.5°	1359.4	1366.2	1376.4	1383.2	1386.6
20°	1332.3	1339.1	1352.7	1362.8	1366.2
22.5°	1308.6	1315.4	1328.9	1339.1	1345.9
25°	1281.5	1288.2	1308.6	1315.4	1322.1
27.5°	1247.6	1254.3	1271.3	1284.9	1295.0
30°	1213.7	1220.4	1240.8	1257.7	1264.5
32.5°	1176.4	1186.5	1210.3	1223.8	1234.0
35°	1135.7	1145.9	1169.6	1193.3	1203.5
37.5°	1095.0	1105.2	1128.9	1159.4	1173.0
40°	1047.5	1061.1	1091.6	1132.3	1139.1
42.5°	1003.5	1020.4	1047.5	1095.0	1112.0
45°	952.6	969.6	1006.9	1057.7	1084.8
47.5°	905.2	922.1	962.8	1023.8	1057.7
50°	847.5	871.3	922.1	993.3	1027.2
52.5°	793.3	813.6	881.4	959.4	1000.1
55°	735.7	759.4	840.7	925.5	969.6
57.5°	684.8	705.1	796.7	891.6	942.5
60°	620.4	647.5	752.6	854.3	905.2
62.5°	552.6	593.3	708.5	813.6	867.9
65°	488.2	535.6	667.9	772.9	827.2
67.5°	430.5	481.4	617.0	728.9	779.7
70°	362.7	427.2	566.1	674.6	732.3
72.5°	301.7	372.9	508.5	617.0	667.9
75°	240.7	318.7	450.9	542.4	572.9
77.5°	186.5	261.0	386.5	413.6	417.0
80°	139.0	206.8	288.2	291.5	301.7
82.5°	94.9	145.8	186.5	203.4	206.8
85°	61.0	84.8	105.1	108.5	115.3
87.5°	27.1	30.5	37.3	33.9	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)