

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: P389358

Luminaire Tested: **22CZ2-65VHE-S-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: P389358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-65VHE-S-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6096.8 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

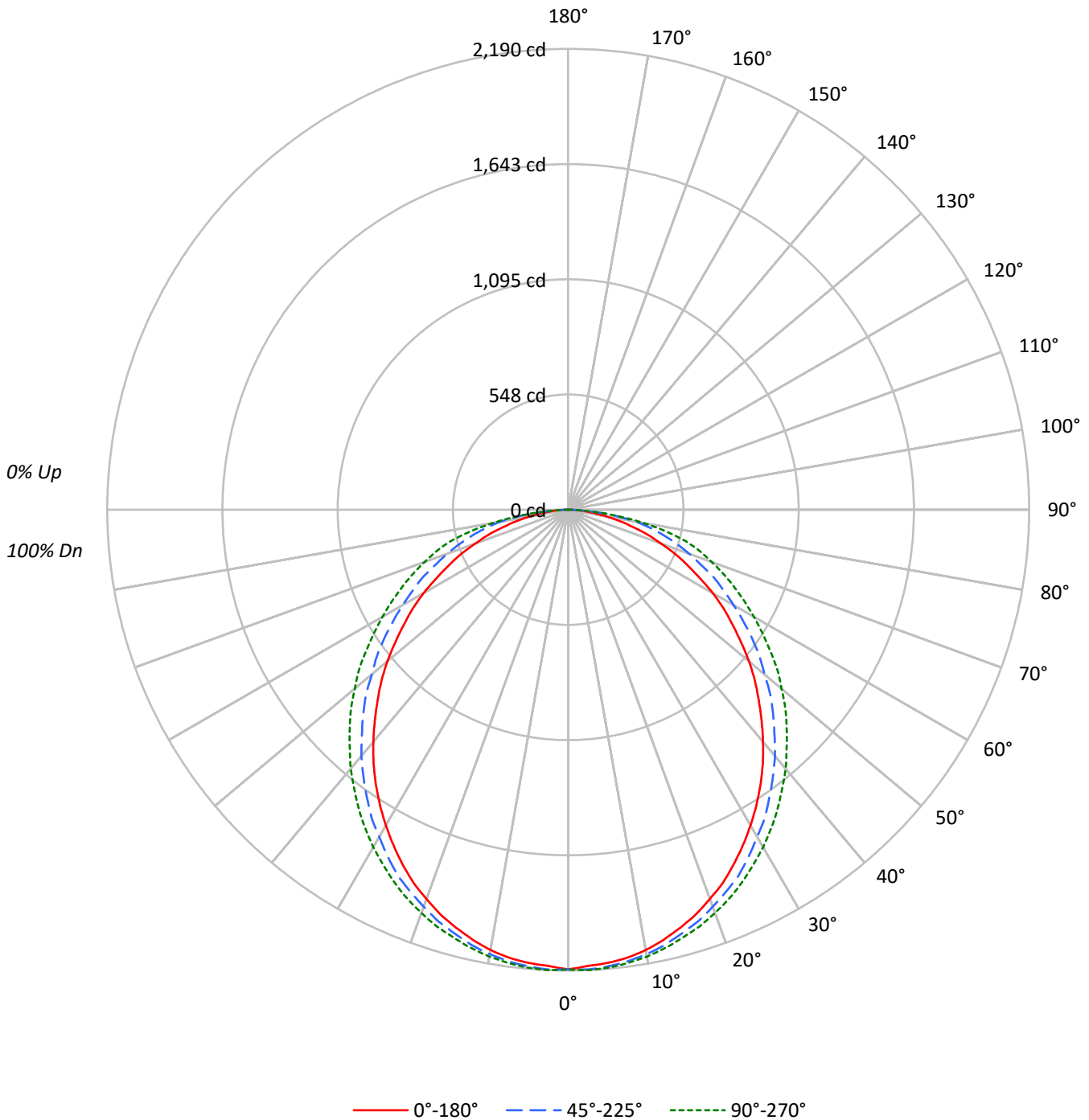
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5879	5879	5879
5°	5840	5886	5901
10°	5806	5861	5892
15°	5730	5809	5864
20°	5637	5751	5841
25°	5524	5693	5803
30°	5383	5578	5754
35°	5233	5476	5700
40°	5056	5366	5646
45°	4872	5240	5586
50°	4692	5097	5538
55°	4471	5005	5499
60°	4272	4884	5481
65°	3985	4855	5543
70°	3670	4812	5707
75°	3313	4880	6004
80°	2865	5026	5642
85°	2371	4215	4215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.6	3.4
10°-20°	587.9	9.6
20°-30°	879.7	14.4
30°-40°	1041.8	17.1
40°-50°	1061.7	17.4
50°-60°	951.6	15.6
60°-70°	745.0	12.2
70°-80°	480.4	7.9
80°-90°	141.9	2.3
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°	1674.3	27.5
0°-40°	2716.1	44.5
0°-60°	4729.4	77.6
0°-90°	6096.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6096.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2185	2185	2185	2185	2185	
5°	2162	2168	2179	2182	2185	205
15°	2057	2068	2085	2102	2105	580
25°	1860	1878	1917	1943	1954	856
35°	1593	1613	1667	1718	1735	996
45°	1280	1308	1377	1448	1468	989
55°	953	984	1067	1141	1172	854
65°	626	663	762	836	870	622
75°	319	367	469	549	578	342
85°	77	105	136	136	136	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2184.7	2184.7	2184.7	2184.7	2184.7
2.5°	2170.5	2176.1	2187.5	2190.4	2190.4
5°	2161.9	2167.6	2179.0	2181.8	2184.7
7.5°	2147.7	2150.5	2164.8	2170.5	2173.3
10°	2124.9	2130.6	2144.8	2153.4	2156.2
12.5°	2093.6	2102.2	2119.2	2130.6	2133.5
15°	2056.7	2068.0	2085.1	2102.2	2105.0
17.5°	2016.8	2028.2	2051.0	2070.9	2076.6
20°	1968.5	1982.7	2008.3	2031.1	2039.6
22.5°	1920.1	1931.5	1962.8	1991.2	1999.8
25°	1860.4	1877.5	1917.3	1942.9	1954.3
27.5°	1797.8	1817.7	1857.5	1891.7	1903.1
30°	1732.4	1752.3	1795.0	1837.6	1851.9
32.5°	1664.1	1686.9	1738.1	1780.7	1795.0
35°	1593.0	1612.9	1667.0	1718.2	1735.2
37.5°	1519.0	1536.1	1598.7	1652.7	1669.8
40°	1439.4	1462.1	1527.6	1590.1	1607.2
42.5°	1359.7	1385.3	1450.8	1519.0	1536.1
45°	1280.1	1308.5	1376.8	1447.9	1467.8
47.5°	1203.3	1226.0	1302.8	1371.1	1399.6
50°	1120.8	1143.5	1217.5	1294.3	1322.8
52.5°	1035.4	1066.7	1146.4	1220.3	1254.5
55°	953.0	984.2	1066.7	1140.7	1172.0
57.5°	876.1	901.7	987.1	1063.9	1095.2
60°	793.7	816.4	907.4	989.9	1018.4
62.5°	705.5	739.6	833.5	910.3	944.4
65°	625.8	662.8	762.4	836.3	870.5
67.5°	551.9	586.0	682.7	762.4	799.3
70°	466.5	512.0	611.6	691.2	725.4
72.5°	398.2	438.1	540.5	620.1	657.1
75°	318.6	367.0	469.4	549.0	577.5
77.5°	253.2	301.5	398.2	460.8	475.1
80°	184.9	233.3	324.3	355.6	364.1
82.5°	125.2	170.7	233.3	241.8	244.6
85°	76.8	105.3	136.5	136.5	136.5
87.5°	37.0	42.7	48.4	45.5	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)