

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: P390774

Luminaire Tested: **22CZ2-85VHE-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: P390774
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: 22CZ2-85VHE-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: 5125.8 lumens
Efficiency: N/A
Efficacy: 80.6 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

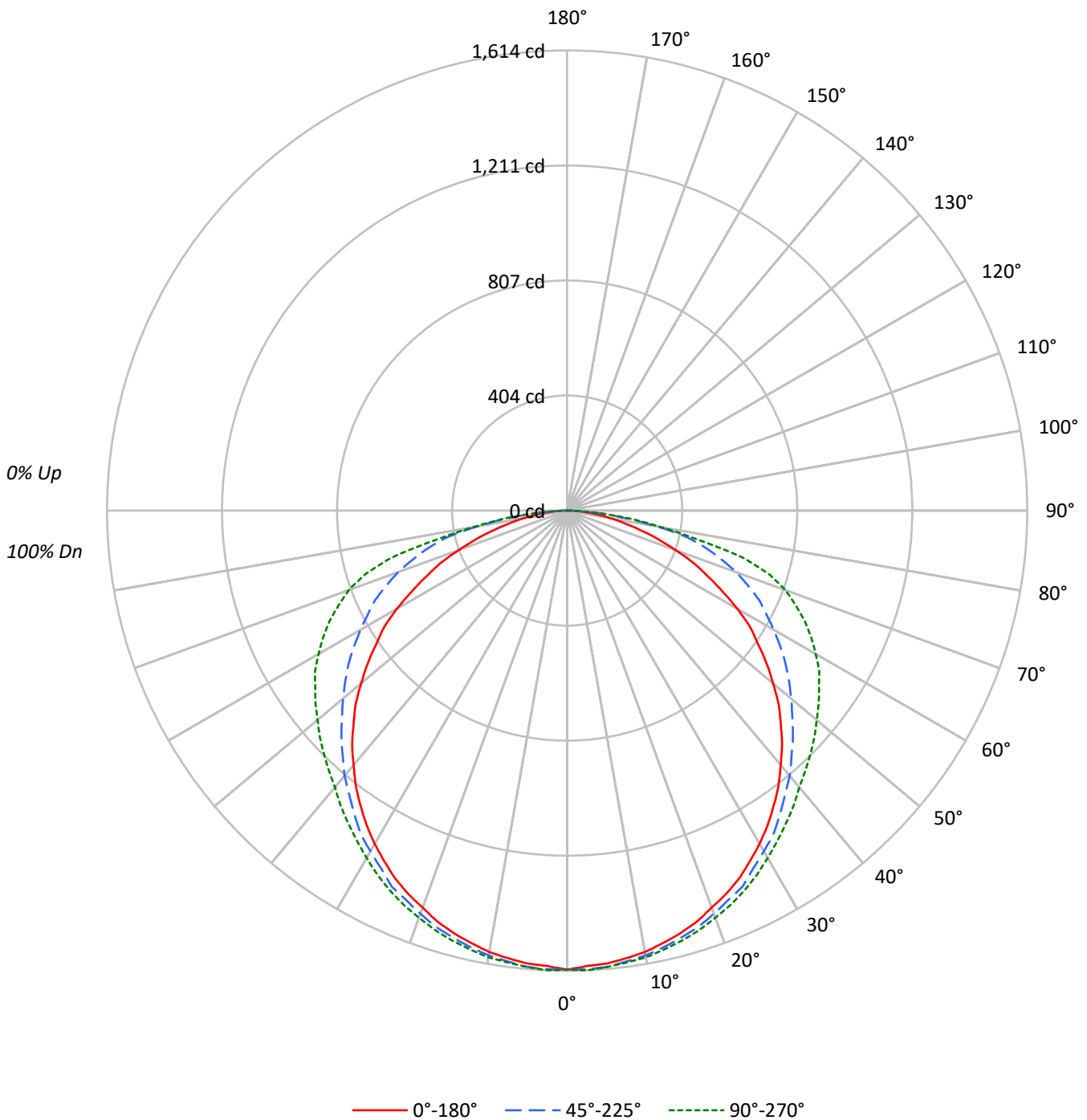
Input Watts (W): 63.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4333	4333	4333
5°	4309	4339	4339
10°	4297	4327	4348
15°	4276	4318	4349
20°	4244	4308	4352
25°	4232	4322	4366
30°	4195	4288	4370
35°	4150	4274	4397
40°	4093	4265	4451
45°	4032	4262	4592
50°	3947	4294	4783
55°	3839	4387	5059
60°	3714	4505	5419
65°	3457	4730	5859
70°	3175	4954	6408
75°	2783	5214	6626
80°	2396	4967	5201
85°	2096	3609	3958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	3.0
10°-20°	437.3	8.5
20°-30°	667.2	13.0
30°-40°	814.6	15.9
40°-50°	871.0	17.0
50°-60°	840.7	16.4
60°-70°	723.7	14.1
70°-80°	489.7	9.6
80°-90°	129.2	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°	1256.8	24.5
0°-40°	2071.4	40.4
0°-60°	3783.2	73.8
0°-90°	5125.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5125.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1610	1610	1610	1610	1610	
5°	1595	1599	1606	1606	1606	151
15°	1535	1538	1550	1557	1561	433
25°	1425	1433	1456	1463	1471	656
35°	1263	1274	1301	1327	1339	790
45°	1060	1078	1120	1176	1207	818
55°	818	845	935	1029	1078	733
65°	543	596	743	860	920	540
75°	268	354	502	603	637	287
85°	68	94	117	121	128	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1610.1	1610.1	1610.1	1610.1	1610.1
2.5°	1598.8	1602.6	1610.1	1610.1	1613.9
5°	1595.0	1598.8	1606.3	1606.3	1606.3
7.5°	1583.7	1587.5	1595.0	1598.8	1598.8
10°	1572.4	1576.2	1583.7	1587.5	1591.2
12.5°	1553.5	1557.3	1568.6	1576.2	1576.2
15°	1534.7	1538.5	1549.8	1557.3	1561.1
17.5°	1512.1	1519.6	1530.9	1538.5	1542.2
20°	1481.9	1489.4	1504.5	1515.8	1519.6
22.5°	1455.5	1463.0	1478.1	1489.4	1497.0
25°	1425.3	1432.9	1455.5	1463.0	1470.6
27.5°	1387.6	1395.2	1414.0	1429.1	1440.4
30°	1349.9	1357.5	1380.1	1398.9	1406.5
32.5°	1308.4	1319.8	1346.2	1361.2	1372.5
35°	1263.2	1274.5	1300.9	1327.3	1338.6
37.5°	1217.9	1229.3	1255.7	1289.6	1304.7
40°	1165.2	1180.2	1214.2	1259.4	1267.0
42.5°	1116.1	1135.0	1165.2	1217.9	1236.8
45°	1059.6	1078.4	1119.9	1176.5	1206.6
47.5°	1006.8	1025.6	1070.9	1138.8	1176.5
50°	942.7	969.1	1025.6	1104.8	1142.5
52.5°	882.4	905.0	980.4	1067.1	1112.4
55°	818.2	844.6	935.1	1029.4	1078.4
57.5°	761.7	784.3	886.1	991.7	1048.3
60°	690.0	720.2	837.1	950.2	1006.8
62.5°	614.6	659.9	788.1	905.0	965.3
65°	543.0	595.8	742.8	859.7	920.1
67.5°	478.9	535.4	686.3	810.7	867.3
70°	403.5	475.1	629.7	750.4	814.5
72.5°	335.6	414.8	565.6	686.3	742.8
75°	267.7	354.4	501.5	603.3	637.3
77.5°	207.4	290.3	429.9	460.0	463.8
80°	154.6	230.0	320.5	324.3	335.6
82.5°	105.6	162.1	207.4	226.2	230.0
85°	67.9	94.3	116.9	120.7	128.2
87.5°	30.2	33.9	41.5	37.7	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)