

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: P390750

Luminaire Tested: **22CZ2-85VHE-HRP-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: P390750
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-HRP-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND HRP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6469.2 lumens
Efficiency: N/A
Efficacy: 101.7 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

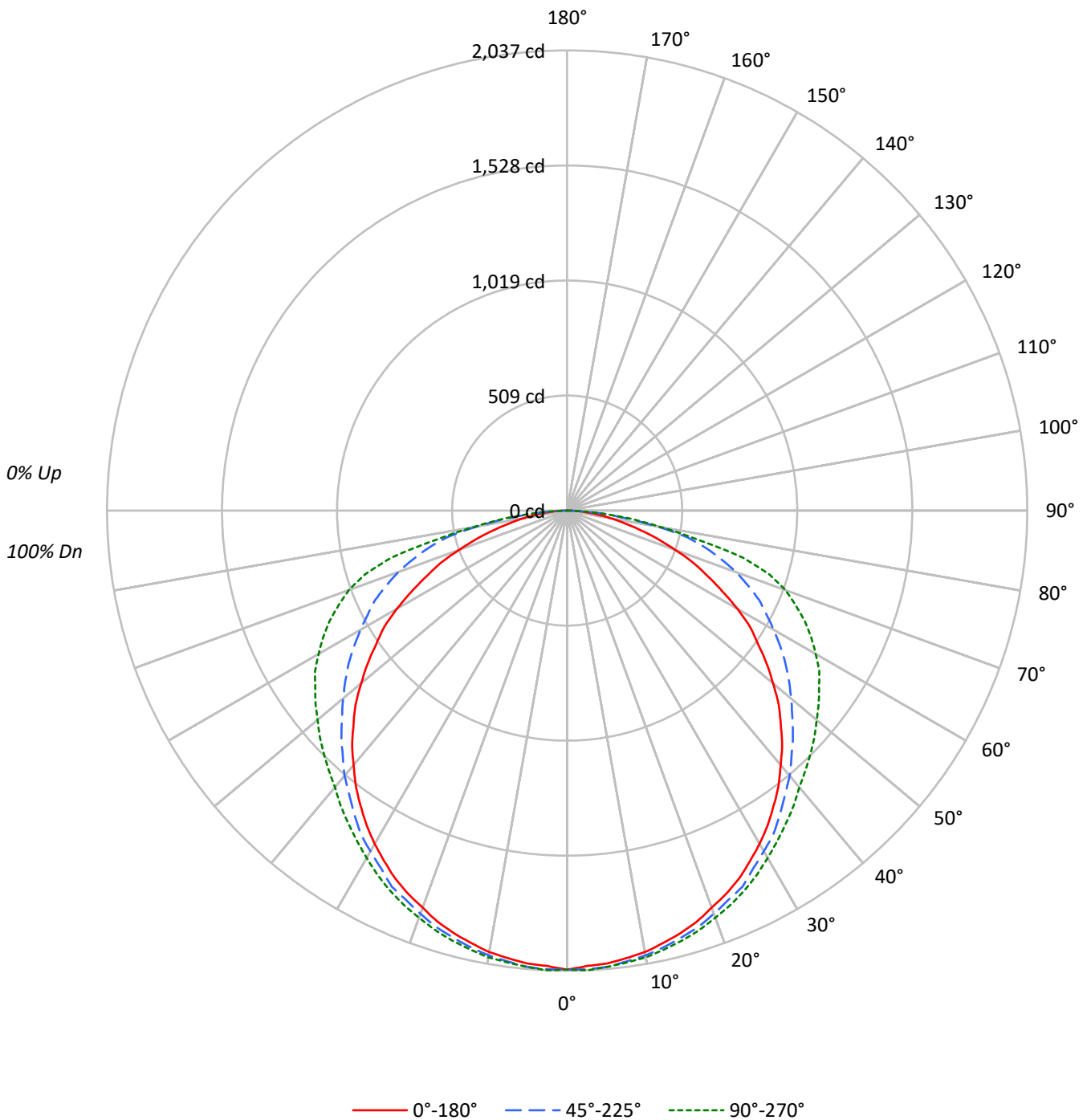
Input Watts (W): 63.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5468	5468	5468
5°	5438	5476	5476
10°	5423	5462	5488
15°	5396	5449	5489
20°	5356	5438	5492
25°	5341	5454	5511
30°	5294	5412	5516
35°	5237	5394	5550
40°	5166	5383	5617
45°	5089	5379	5796
50°	4981	5419	6037
55°	4845	5537	6386
60°	4687	5686	6839
65°	4364	5969	7394
70°	4006	6253	8087
75°	3513	6580	8362
80°	3023	6268	6564
85°	2646	4554	4996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	3.0
10°-20°	551.9	8.5
20°-30°	842.0	13.0
30°-40°	1028.1	15.9
40°-50°	1099.3	17.0
50°-60°	1061.1	16.4
60°-70°	913.4	14.1
70°-80°	618.0	9.6
80°-90°	163.1	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°	1586.2	24.5
0°-40°	2614.3	40.4
0°-60°	4774.7	73.8
0°-90°	6469.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6469.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2032	2032	2032	2032	2032	
5°	2013	2018	2027	2027	2027	191
15°	1937	1942	1956	1966	1970	546
25°	1799	1808	1837	1846	1856	828
35°	1594	1608	1642	1675	1689	998
45°	1337	1361	1413	1485	1523	1032
55°	1033	1066	1180	1299	1361	925
65°	685	752	938	1085	1161	682
75°	338	447	633	761	804	363
85°	86	119	148	152	162	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2032.1	2032.1	2032.1	2032.1	2032.1
2.5°	2017.8	2022.6	2032.1	2032.1	2036.8
5°	2013.1	2017.8	2027.3	2027.3	2027.3
7.5°	1998.8	2003.5	2013.1	2017.8	2017.8
10°	1984.5	1989.3	1998.8	2003.5	2008.3
12.5°	1960.7	1965.5	1979.7	1989.3	1989.3
15°	1936.9	1941.7	1955.9	1965.5	1970.2
17.5°	1908.4	1917.9	1932.1	1941.7	1946.4
20°	1870.3	1879.8	1898.8	1913.1	1917.9
22.5°	1837.0	1846.5	1865.5	1879.8	1889.3
25°	1798.9	1808.4	1837.0	1846.5	1856.0
27.5°	1751.3	1760.8	1784.6	1803.7	1817.9
30°	1703.7	1713.2	1741.8	1765.6	1775.1
32.5°	1651.4	1665.6	1699.0	1718.0	1732.3
35°	1594.3	1608.5	1641.9	1675.2	1689.4
37.5°	1537.2	1551.4	1584.7	1627.6	1646.6
40°	1470.5	1489.6	1532.4	1589.5	1599.0
42.5°	1408.7	1432.5	1470.5	1537.2	1560.9
45°	1337.3	1361.1	1413.4	1484.8	1522.9
47.5°	1270.7	1294.4	1351.6	1437.2	1484.8
50°	1189.7	1223.1	1294.4	1394.4	1442.0
52.5°	1113.6	1142.2	1237.3	1346.8	1403.9
55°	1032.7	1066.0	1180.2	1299.2	1361.1
57.5°	961.3	989.9	1118.4	1251.6	1323.0
60°	870.9	909.0	1056.5	1199.3	1270.7
62.5°	775.7	832.8	994.6	1142.2	1218.3
65°	685.3	751.9	937.5	1085.0	1161.2
67.5°	604.4	675.8	866.1	1023.2	1094.6
70°	509.2	599.6	794.8	947.0	1027.9
72.5°	423.6	523.5	713.8	866.1	937.5
75°	337.9	447.3	632.9	761.4	804.3
77.5°	261.7	366.4	542.5	580.6	585.4
80°	195.1	290.3	404.5	409.3	423.6
82.5°	133.3	204.6	261.7	285.5	290.3
85°	85.7	119.0	147.5	152.3	161.8
87.5°	38.1	42.8	52.3	47.6	47.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)