

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: P881227

Luminaire Tested: **24CZ2-55VHE-HRP-UNV-B35**

Issue Date: 10/2/2024

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: P881227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55VHE-HRP-UNV-B35
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

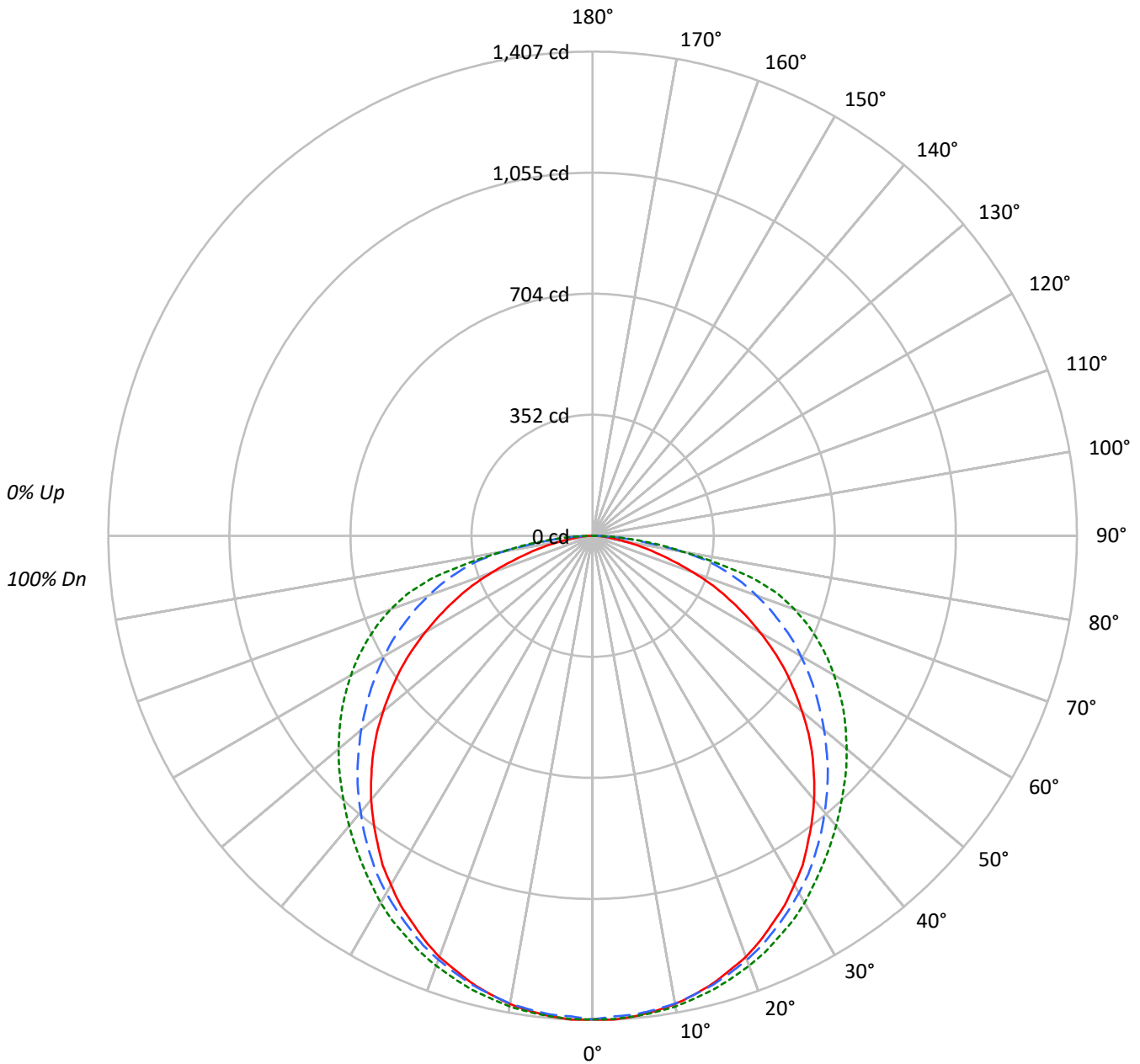
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4332.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 43
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									
RC	80									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	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	101	96	93	96	93	90	92	90	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1984	1984	1984
5°	1986	1978	1986
10°	1980	1978	1991
15°	1969	1974	1993
20°	1956	1969	1997
25°	1932	1960	1999
30°	1909	1953	2007
35°	1878	1943	2009
40°	1844	1932	2028
45°	1802	1929	2060
50°	1744	1927	2115
55°	1682	1941	2191
60°	1587	1971	2288
65°	1465	2017	2417
70°	1280	2088	2574
75°	1038	2195	2660
80°	767	2153	2153
85°	588	1587	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	3.1
10°-20°	382.3	8.8
20°-30°	582.1	13.4
30°-40°	706.8	16.3
40°-50°	746.7	17.2
50°-60°	704.6	16.3
60°-70°	585.9	13.5
70°-80°	385.4	8.9
80°-90°	105.1	2.4
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°	1097.6	25.3
0°-40°	1804.3	41.7
0°-60°	3255.6	75.2
0°-90°	4332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1402	1402	1396	1402	1402	133
15°	1347	1349	1351	1364	1364	380
25°	1240	1248	1259	1280	1284	572
35°	1090	1103	1128	1157	1166	682
45°	903	921	966	1014	1032	695
55°	684	713	789	863	890	609
65°	439	490	604	693	724	434
75°	190	278	402	477	488	205
85°	36	80	98	109	111	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1405.5	1405.5	1405.5	1405.5	1405.5
2.5°	1407.3	1405.5	1398.2	1405.5	1405.5
5°	1401.9	1401.9	1396.4	1401.9	1401.9
7.5°	1392.8	1392.8	1389.1	1396.4	1396.4
10°	1381.9	1381.9	1380.1	1389.1	1389.1
12.5°	1365.7	1367.3	1365.7	1376.4	1376.4
15°	1347.4	1349.2	1351.2	1363.9	1363.9
17.5°	1324.0	1327.6	1331.2	1345.6	1347.4
20°	1302.2	1303.8	1311.1	1327.6	1329.4
22.5°	1273.2	1278.6	1287.7	1303.8	1309.5
25°	1240.4	1247.7	1258.6	1280.4	1284.0
27.5°	1209.6	1215.1	1229.6	1253.2	1260.5
30°	1171.5	1180.6	1198.7	1222.3	1231.4
32.5°	1135.2	1144.4	1166.2	1191.4	1198.7
35°	1090.0	1102.7	1127.9	1157.1	1166.2
37.5°	1046.4	1059.1	1090.0	1122.6	1133.6
40°	1001.0	1015.5	1048.4	1086.3	1100.7
42.5°	952.0	972.0	1008.3	1050.0	1066.4
45°	903.0	921.3	966.5	1013.7	1031.9
47.5°	850.7	872.5	921.3	977.6	999.4
50°	794.4	821.5	877.8	939.3	963.1
52.5°	738.2	769.0	832.4	901.3	926.8
55°	683.7	712.7	788.8	863.4	890.5
57.5°	623.8	660.3	743.6	823.3	850.7
60°	562.2	602.2	698.2	781.5	810.6
62.5°	500.5	545.9	654.6	738.2	769.0
65°	438.8	489.8	604.0	692.8	723.8
67.5°	379.0	435.3	556.8	645.6	676.4
70°	310.1	380.9	505.9	593.1	623.8
72.5°	246.7	328.4	456.9	538.8	565.9
75°	190.4	277.6	402.5	476.9	487.8
77.5°	139.6	226.7	346.4	371.6	373.6
80°	94.4	181.3	264.9	261.2	264.9
82.5°	61.7	136.0	166.8	186.8	188.6
85°	36.3	79.9	98.0	108.9	110.6
87.5°	18.1	27.2	34.5	36.3	39.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)