

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: P880877

Luminaire Tested: **24CZ2-45VHE-HRP-B2750-W2D-2700K**

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: P880877
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: 24CZ2-45VHE-HRP-B2750-W2D-2700K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

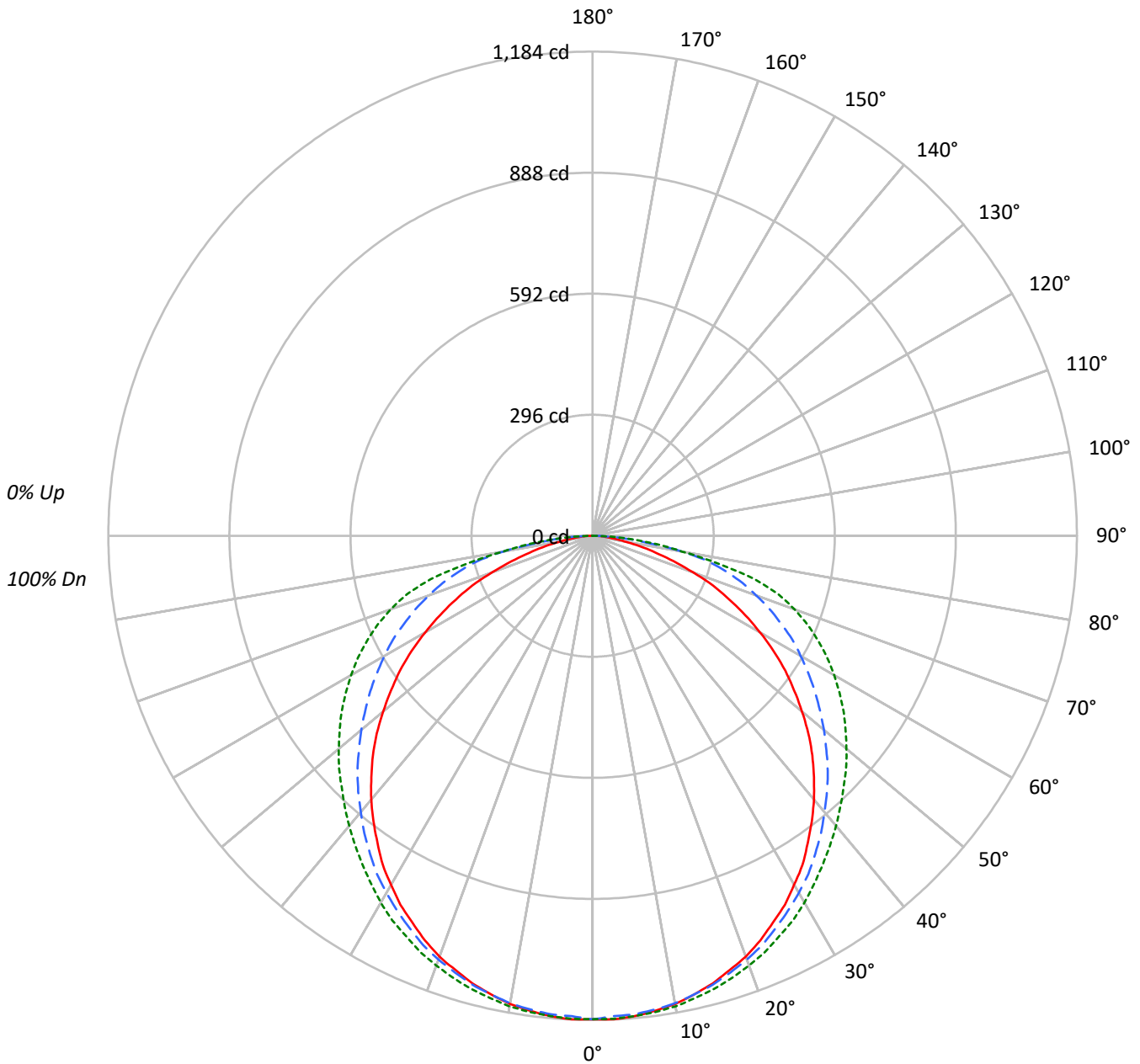
Lumens per Lamp: N/A
Luminaire Lumens: 3644.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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°	1669	1669	1669
5°	1671	1664	1671
10°	1666	1664	1675
15°	1656	1661	1676
20°	1645	1656	1679
25°	1625	1649	1682
30°	1606	1643	1688
35°	1580	1635	1690
40°	1551	1625	1706
45°	1516	1623	1732
50°	1467	1621	1779
55°	1415	1633	1843
60°	1335	1658	1925
65°	1233	1697	2033
70°	1077	1756	2166
75°	873	1846	2237
80°	645	1811	1811
85°	494	1334	1508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.1
10°-20°	321.6	8.8
20°-30°	489.6	13.4
30°-40°	594.5	16.3
40°-50°	628.1	17.2
50°-60°	592.7	16.3
60°-70°	492.8	13.5
70°-80°	324.2	8.9
80°-90°	88.4	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°	923.2	25.3
0°-40°	1517.8	41.7
0°-60°	2738.6	75.2
0°-90°	3644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1179	1179	1175	1179	1179	112
15°	1133	1135	1137	1147	1147	320
25°	1043	1050	1059	1077	1080	481
35°	917	928	949	973	981	574
45°	760	775	813	853	868	585
55°	575	600	664	726	749	512
65°	369	412	508	583	609	365
75°	160	234	339	401	410	173
85°	30	67	82	92	93	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.3	1182.3	1182.3	1182.3	1182.3
2.5°	1183.8	1182.3	1176.1	1182.3	1182.3
5°	1179.3	1179.3	1174.6	1179.3	1179.3
7.5°	1171.6	1171.6	1168.5	1174.6	1174.6
10°	1162.4	1162.4	1160.9	1168.5	1168.5
12.5°	1148.8	1150.1	1148.8	1157.8	1157.8
15°	1133.4	1134.9	1136.6	1147.3	1147.3
17.5°	1113.7	1116.7	1119.7	1131.9	1133.4
20°	1095.4	1096.7	1102.9	1116.7	1118.2
22.5°	1071.0	1075.5	1083.2	1096.7	1101.6
25°	1043.4	1049.5	1058.7	1077.0	1080.0
27.5°	1017.5	1022.2	1034.3	1054.2	1060.4
30°	985.5	993.1	1008.3	1028.2	1035.8
32.5°	954.9	962.6	981.0	1002.2	1008.3
35°	916.9	927.6	948.8	973.3	981.0
37.5°	880.2	890.9	916.9	944.3	953.6
40°	842.0	854.2	881.9	913.7	925.9
42.5°	800.8	817.7	848.2	883.2	897.1
45°	759.6	775.0	813.0	852.7	868.0
47.5°	715.6	733.9	775.0	822.3	840.7
50°	668.2	691.1	738.4	790.2	810.1
52.5°	621.0	646.9	700.2	758.1	779.6
55°	575.1	599.5	663.5	726.2	749.1
57.5°	524.8	555.4	625.5	692.6	715.6
60°	472.9	506.6	587.3	657.4	681.9
62.5°	421.0	459.2	550.6	621.0	646.9
65°	369.1	412.0	508.1	582.8	608.8
67.5°	318.8	366.1	468.4	543.1	569.0
70°	260.9	320.4	425.5	498.9	524.8
72.5°	207.5	276.2	384.3	453.2	476.0
75°	160.1	233.5	338.6	401.2	410.3
77.5°	117.4	190.7	291.4	312.6	314.3
80°	79.4	152.5	222.8	219.7	222.8
82.5°	51.9	114.4	140.3	157.1	158.6
85°	30.5	67.2	82.4	91.6	93.1
87.5°	15.2	22.9	29.0	30.5	33.5
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)