

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: P732316

Luminaire Tested: **24CZ2-50HE-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50HE-HRP-B2750-W2D-2700K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

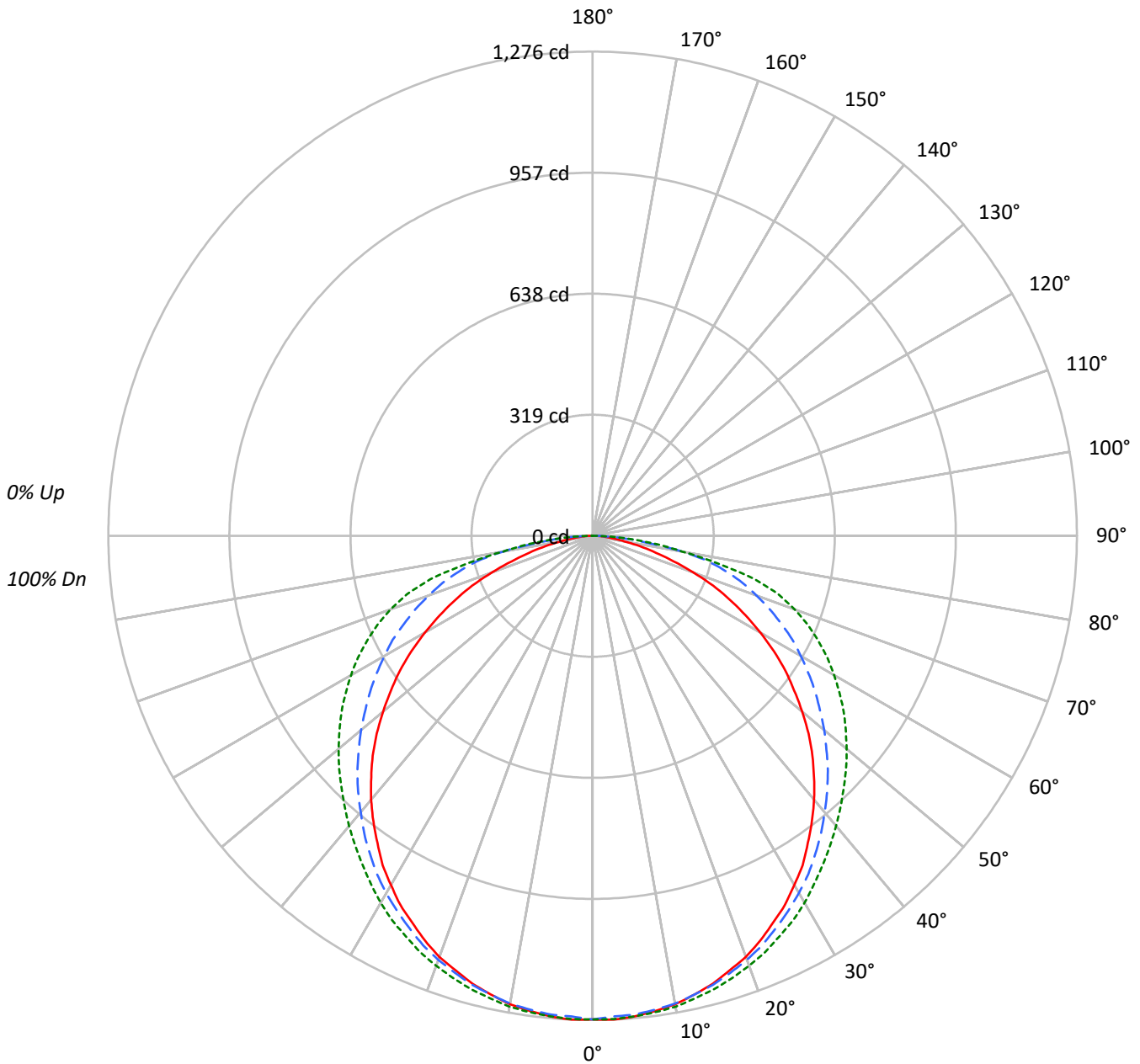
Lumens per Lamp: N/A
Luminaire Lumens: 3929.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 37
Input Voltage (V): NR
Input Current (A_{in}): 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°	1799	1799	1799
5°	1802	1794	1802
10°	1796	1794	1806
15°	1786	1790	1807
20°	1774	1786	1811
25°	1752	1778	1814
30°	1732	1772	1820
35°	1703	1763	1822
40°	1673	1752	1839
45°	1635	1750	1868
50°	1582	1748	1918
55°	1526	1760	1987
60°	1440	1787	2075
65°	1329	1829	2191
70°	1161	1894	2335
75°	942	1991	2412
80°	694	1952	1952
85°	534	1440	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.1
10°-20°	346.8	8.8
20°-30°	527.9	13.4
30°-40°	641.0	16.3
40°-50°	677.2	17.2
50°-60°	639.0	16.3
60°-70°	531.3	13.5
70°-80°	349.6	8.9
80°-90°	95.3	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°	995.5	25.3
0°-40°	1636.5	41.7
0°-60°	2952.8	75.2
0°-90°	3929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1272	1272	1266	1272	1272	121
15°	1222	1224	1225	1237	1237	345
25°	1125	1132	1142	1161	1165	519
35°	989	1000	1023	1049	1058	619
45°	819	836	877	919	936	631
55°	620	646	715	783	808	552
65°	398	444	548	628	656	394
75°	173	252	365	433	442	186
85°	33	72	89	99	100	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274.8	1274.8	1274.8	1274.8	1274.8
2.5°	1276.4	1274.8	1268.1	1274.8	1274.8
5°	1271.6	1271.6	1266.5	1271.6	1271.6
7.5°	1263.2	1263.2	1260.0	1266.5	1266.5
10°	1253.5	1253.5	1251.6	1260.0	1260.0
12.5°	1238.6	1240.2	1238.6	1248.4	1248.4
15°	1222.1	1223.8	1225.4	1237.0	1237.0
17.5°	1200.8	1204.0	1207.3	1220.5	1222.1
20°	1181.0	1182.7	1189.2	1204.0	1205.7
22.5°	1154.6	1159.7	1167.8	1182.7	1187.6
25°	1125.1	1131.6	1141.6	1161.3	1164.6
27.5°	1097.0	1102.1	1115.1	1136.5	1143.2
30°	1062.7	1070.8	1087.3	1108.6	1116.8
32.5°	1029.7	1037.8	1057.6	1080.8	1087.3
35°	988.6	1000.0	1023.2	1049.4	1057.6
37.5°	949.1	960.5	988.6	1018.1	1028.1
40°	907.9	921.1	950.8	985.4	998.4
42.5°	863.5	881.6	914.6	952.4	967.2
45°	819.2	835.6	876.7	919.4	935.9
47.5°	771.4	791.1	835.6	886.5	906.2
50°	720.5	745.1	796.2	852.1	873.5
52.5°	669.4	697.3	754.9	817.5	840.5
55°	620.0	646.5	715.4	783.0	807.6
57.5°	565.9	598.7	674.3	746.7	771.4
60°	510.0	546.2	633.2	708.9	735.2
62.5°	454.0	495.1	593.8	669.4	697.3
65°	398.1	444.1	547.8	628.4	656.2
67.5°	343.8	394.8	504.9	585.6	613.5
70°	281.3	345.4	458.9	537.8	565.9
72.5°	223.8	297.8	414.6	488.6	513.2
75°	172.7	251.6	365.1	432.7	442.4
77.5°	126.7	205.7	314.1	337.3	338.9
80°	85.4	164.6	240.2	236.8	240.2
82.5°	55.9	123.3	151.3	169.4	171.1
85°	33.0	72.4	88.9	98.7	100.3
87.5°	16.5	24.6	31.3	33.0	36.2
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)