

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: P880927

Luminaire Tested: **24CZ2-55VHE-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: P880927
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-B2750-W2D-2700K
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

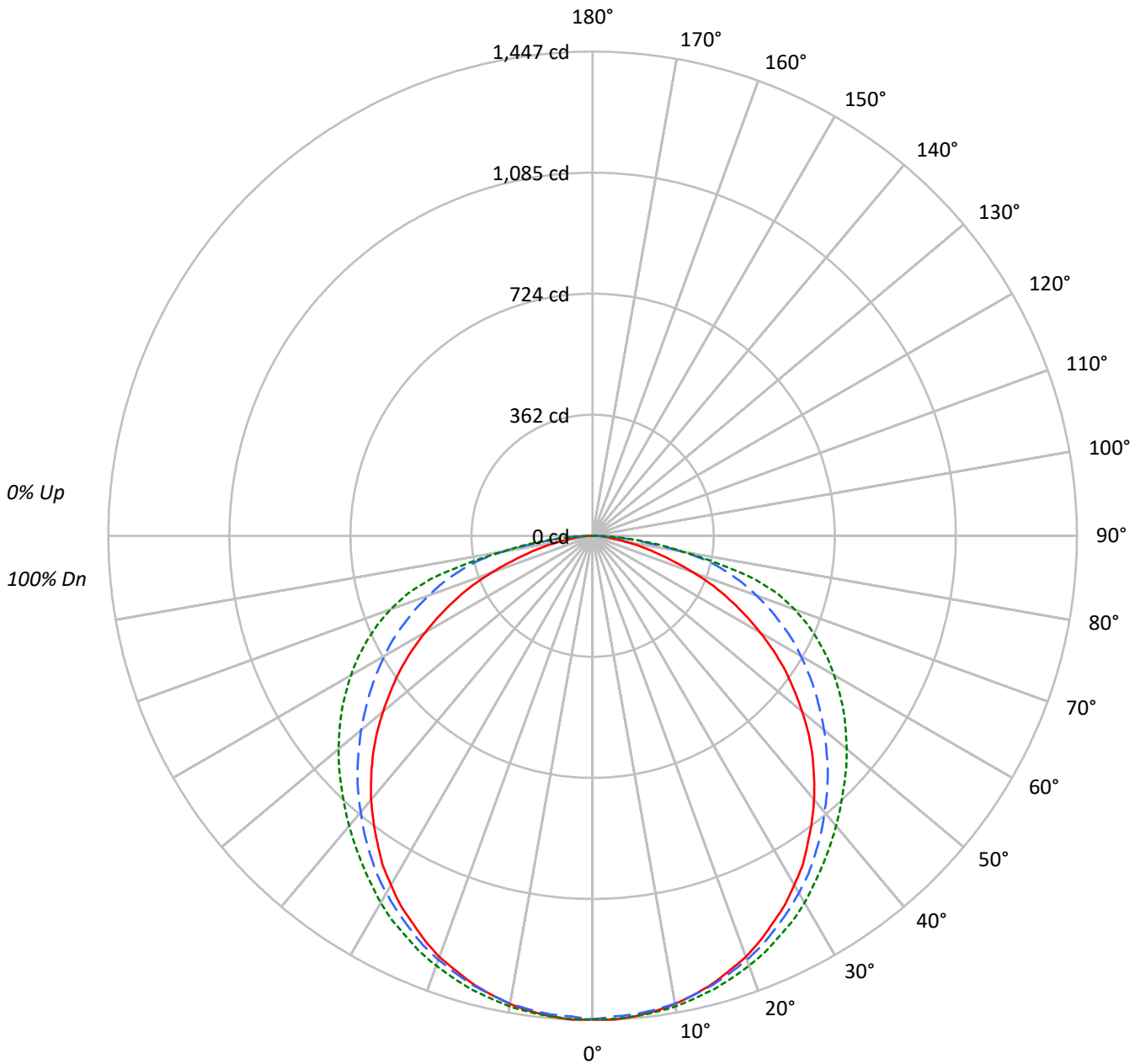
Lumens per Lamp: N/A
Luminaire Lumens: 4455.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					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	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°	2040	2040	2040
5°	2043	2034	2043
10°	2037	2034	2047
15°	2025	2030	2049
20°	2011	2025	2053
25°	1986	2016	2056
30°	1963	2009	2064
35°	1931	1998	2066
40°	1897	1986	2086
45°	1854	1984	2118
50°	1794	1982	2175
55°	1730	1996	2253
60°	1632	2027	2353
65°	1507	2074	2486
70°	1316	2147	2648
75°	1068	2258	2736
80°	789	2214	2214
85°	604	1631	1843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	3.1
10°-20°	393.2	8.8
20°-30°	598.6	13.4
30°-40°	726.8	16.3
40°-50°	767.9	17.2
50°-60°	724.6	16.3
60°-70°	602.5	13.5
70°-80°	396.4	8.9
80°-90°	108.1	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°	1128.7	25.3
0°-40°	1855.6	41.7
0°-60°	3348.1	75.2
0°-90°	4455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1442	1442	1436	1442	1442	137
15°	1386	1388	1390	1403	1403	391
25°	1276	1283	1294	1317	1320	588
35°	1121	1134	1160	1190	1199	702
45°	929	947	994	1042	1061	715
55°	703	733	811	888	916	626
65°	451	504	621	712	744	446
75°	196	286	414	490	502	211
85°	37	82	101	112	114	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445.4	1445.4	1445.4	1445.4	1445.4
2.5°	1447.3	1445.4	1437.9	1445.4	1445.4
5°	1441.7	1441.7	1436.0	1441.7	1441.7
7.5°	1432.4	1432.4	1428.5	1436.0	1436.0
10°	1421.2	1421.2	1419.3	1428.5	1428.5
12.5°	1404.4	1406.1	1404.4	1415.5	1415.5
15°	1385.7	1387.5	1389.5	1402.6	1402.6
17.5°	1361.6	1365.3	1369.0	1383.8	1385.7
20°	1339.2	1340.8	1348.4	1365.3	1367.1
22.5°	1309.4	1314.9	1324.3	1340.8	1346.7
25°	1275.6	1283.1	1294.3	1316.7	1320.4
27.5°	1244.0	1249.6	1264.5	1288.8	1296.3
30°	1204.8	1214.2	1232.7	1257.0	1266.4
32.5°	1167.5	1176.9	1199.3	1225.2	1232.7
35°	1121.0	1134.0	1159.9	1189.9	1199.3
37.5°	1076.1	1089.2	1121.0	1154.4	1165.8
40°	1029.4	1044.3	1078.1	1117.1	1132.0
42.5°	979.1	999.6	1037.0	1079.8	1096.7
45°	928.7	947.4	993.9	1042.5	1061.2
47.5°	874.8	897.3	947.4	1005.3	1027.8
50°	816.9	844.9	902.8	966.0	990.5
52.5°	759.2	790.8	856.1	926.9	953.1
55°	703.1	732.9	811.2	887.9	915.8
57.5°	641.6	679.1	764.7	846.7	874.8
60°	578.1	619.3	718.0	803.7	833.7
62.5°	514.7	561.4	673.2	759.2	790.8
65°	451.3	503.7	621.1	712.5	744.3
67.5°	389.7	447.6	572.6	664.0	695.6
70°	318.9	391.7	520.2	609.9	641.6
72.5°	253.7	337.7	469.9	554.1	582.0
75°	195.8	285.5	414.0	490.4	501.7
77.5°	143.6	233.1	356.3	382.2	384.2
80°	97.1	186.4	272.4	268.6	272.4
82.5°	63.4	139.9	171.5	192.1	193.9
85°	37.3	82.2	100.7	112.0	113.8
87.5°	18.6	27.9	35.5	37.3	41.0
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)