

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: P880953

Luminaire Tested: **24CZ2-60VHE-HRP-B2750-W2D-3000K**

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: P880953  
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: 24CZ2-60VHE-HRP-B2750-W2D-3000K  
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

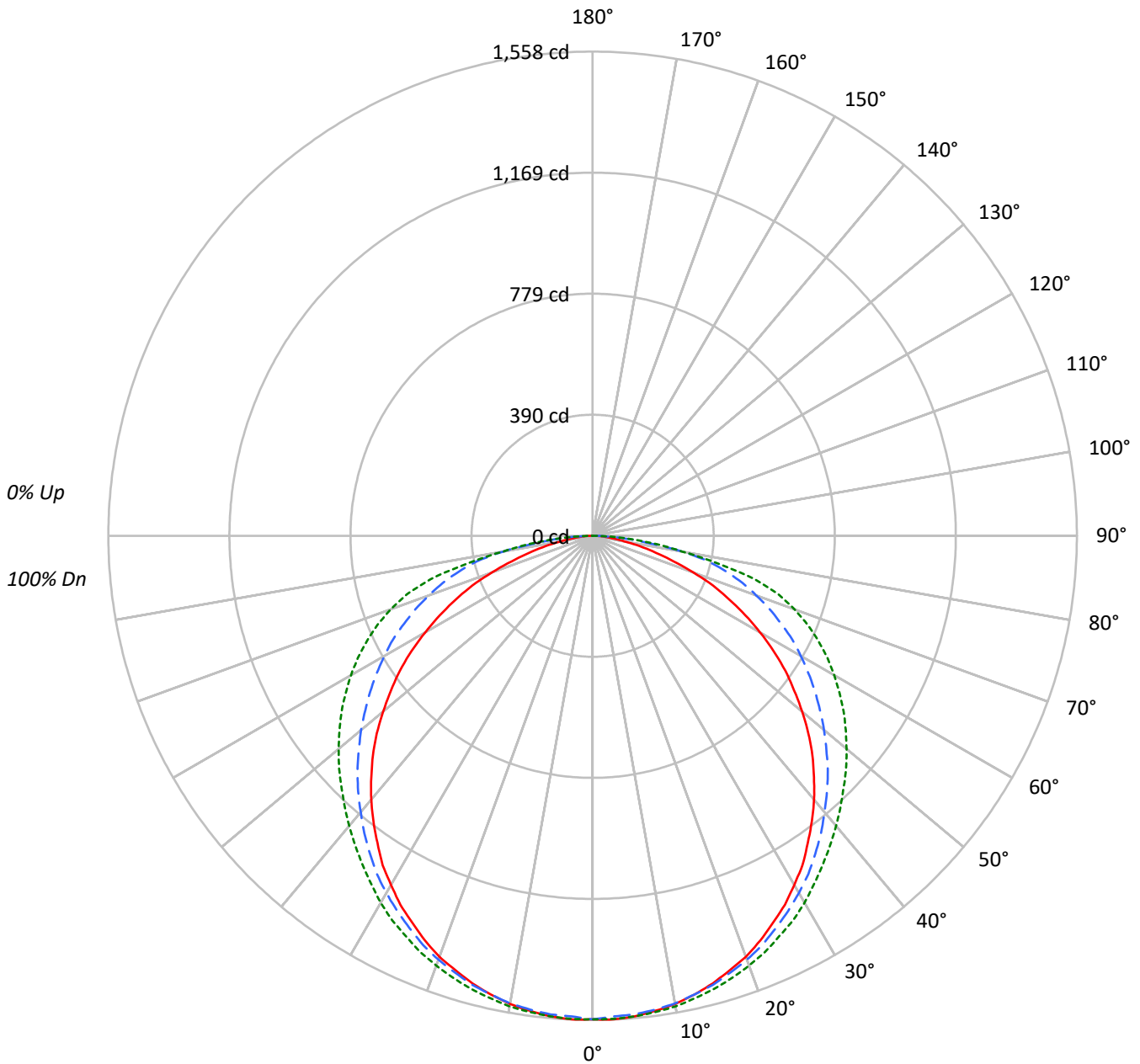
Lumens per Lamp: N/A  
Luminaire Lumens: 4796.0 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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°	2196	2196	2196
5°	2199	2190	2199
10°	2193	2190	2204
15°	2180	2186	2206
20°	2165	2180	2211
25°	2138	2170	2214
30°	2114	2163	2222
35°	2079	2151	2224
40°	2042	2138	2245
45°	1996	2136	2280
50°	1931	2134	2341
55°	1863	2149	2426
60°	1757	2182	2533
65°	1622	2233	2676
70°	1417	2311	2850
75°	1149	2430	2945
80°	849	2384	2384
85°	651	1755	1984



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.4	3.1
10°-20°	423.3	8.8
20°-30°	644.4	13.4
30°-40°	782.5	16.3
40°-50°	826.7	17.2
50°-60°	780.1	16.3
60°-70°	648.6	13.5
70°-80°	426.7	8.9
80°-90°	116.3	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°	1215.1	25.3
0°-40°	1997.6	41.7
0°-60°	3604.4	75.2
0°-90°	4796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4796.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1552	1552	1546	1552	1552	147
15°	1492	1494	1496	1510	1510	421
25°	1373	1381	1393	1418	1422	634
35°	1207	1221	1249	1281	1291	755
45°	1000	1020	1070	1122	1142	770
55°	757	789	873	956	986	674
65°	486	542	669	767	801	480
75°	211	307	446	528	540	227
85°	40	88	108	120	122	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1556.1	1556.1	1556.1	1556.1	1556.1
2.5°	1558.0	1556.1	1547.9	1556.1	1556.1
5°	1552.1	1552.1	1546.0	1552.1	1552.1
7.5°	1542.0	1542.0	1537.9	1546.0	1546.0
10°	1529.9	1529.9	1528.0	1537.9	1537.9
12.5°	1511.9	1513.7	1511.9	1523.8	1523.8
15°	1491.7	1493.7	1495.9	1510.0	1510.0
17.5°	1465.8	1469.8	1473.7	1489.8	1491.7
20°	1441.7	1443.5	1451.6	1469.8	1471.8
22.5°	1409.6	1415.6	1425.6	1443.5	1449.8
25°	1373.2	1381.3	1393.4	1417.5	1421.5
27.5°	1339.2	1345.3	1361.3	1387.5	1395.6
30°	1297.0	1307.1	1327.1	1353.2	1363.3
32.5°	1256.8	1266.9	1291.1	1319.0	1327.1
35°	1206.8	1220.8	1248.7	1281.0	1291.1
37.5°	1158.5	1172.5	1206.8	1242.8	1255.1
40°	1108.2	1124.3	1160.7	1202.6	1218.6
42.5°	1054.0	1076.2	1116.3	1162.4	1180.7
45°	999.8	1020.0	1070.0	1122.3	1142.5
47.5°	941.8	965.9	1020.0	1082.3	1106.4
50°	879.5	909.5	971.9	1039.9	1066.3
52.5°	817.3	851.4	921.6	997.8	1026.1
55°	757.0	789.0	873.3	955.8	985.9
57.5°	690.7	731.0	823.2	911.5	941.8
60°	622.4	666.7	773.0	865.2	897.5
62.5°	554.1	604.4	724.7	817.3	851.4
65°	485.8	542.2	668.7	767.0	801.3
67.5°	419.5	481.9	616.4	714.8	748.8
70°	343.4	421.7	560.0	656.6	690.7
72.5°	273.1	363.5	505.8	596.5	626.5
75°	210.8	307.3	445.7	528.0	540.1
77.5°	154.6	250.9	383.5	411.4	413.6
80°	104.5	200.7	293.3	289.1	293.3
82.5°	68.3	150.6	184.6	206.8	208.8
85°	40.2	88.5	108.4	120.5	122.5
87.5°	20.0	30.1	38.2	40.2	44.1
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)