

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: P880956

Luminaire Tested: **24CZ2-60VHE-HRP-B2750-W2D-5000K**

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: P880956  
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-5000K  
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

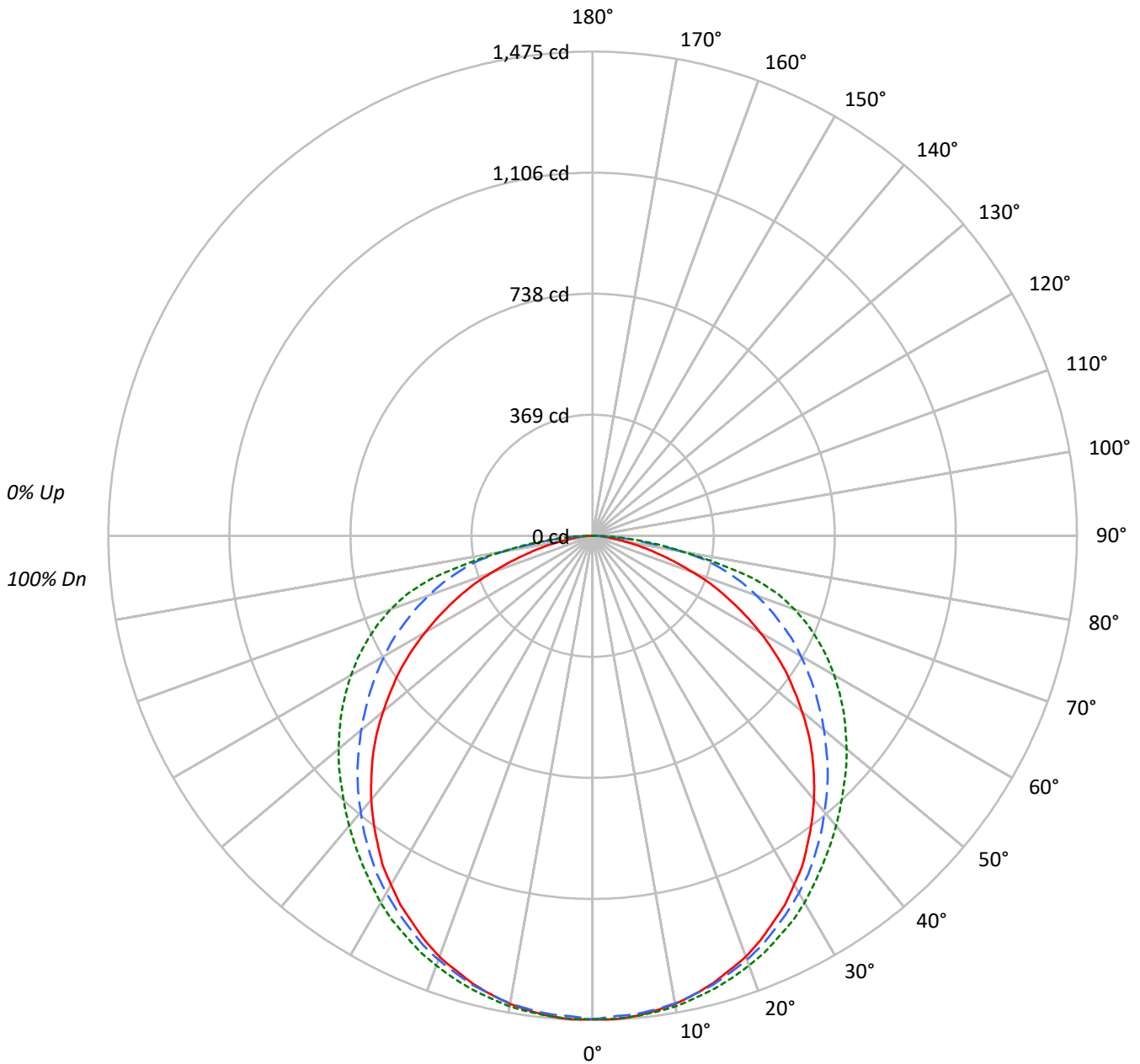
Lumens per Lamp: N/A  
Luminaire Lumens: 4540.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	2079	2079	2079
5°	2082	2073	2082
10°	2076	2073	2086
15°	2063	2069	2089
20°	2050	2064	2092
25°	2024	2054	2095
30°	2001	2047	2103
35°	1968	2037	2106
40°	1933	2024	2125
45°	1889	2022	2159
50°	1828	2020	2216
55°	1763	2034	2296
60°	1663	2065	2398
65°	1536	2114	2533
70°	1341	2188	2698
75°	1088	2301	2788
80°	804	2256	2256
85°	615	1663	1878



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.5	3.1
10°-20°	400.7	8.8
20°-30°	610.0	13.4
30°-40°	740.7	16.3
40°-50°	782.5	17.2
50°-60°	738.4	16.3
60°-70°	614.0	13.5
70°-80°	403.9	8.9
80°-90°	110.1	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°	1150.3	25.3
0°-40°	1891.0	41.7
0°-60°	3412.0	75.2
0°-90°	4540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4540.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1469	1469	1463	1469	1469	140
15°	1412	1414	1416	1429	1429	398
25°	1300	1308	1319	1342	1346	600
35°	1142	1156	1182	1213	1222	715
45°	946	966	1013	1062	1082	729
55°	716	747	827	905	933	638
65°	460	513	633	726	758	455
75°	200	291	422	500	511	215
85°	38	84	103	114	116	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1473.0	1473.0	1473.0	1473.0	1473.0
2.5°	1474.9	1473.0	1465.3	1473.0	1473.0
5°	1469.3	1469.3	1463.4	1469.3	1469.3
7.5°	1459.7	1459.7	1455.8	1463.4	1463.4
10°	1448.3	1448.3	1446.4	1455.8	1455.8
12.5°	1431.2	1432.9	1431.2	1442.5	1442.5
15°	1412.1	1414.0	1416.1	1429.4	1429.4
17.5°	1387.6	1391.3	1395.1	1410.2	1412.1
20°	1364.7	1366.4	1374.1	1391.3	1393.2
22.5°	1334.4	1340.0	1349.5	1366.4	1372.4
25°	1299.9	1307.6	1319.0	1341.9	1345.6
27.5°	1267.7	1273.5	1288.7	1313.4	1321.1
30°	1227.8	1237.3	1256.3	1281.0	1290.5
32.5°	1189.8	1199.3	1222.2	1248.6	1256.3
35°	1142.4	1155.7	1182.1	1212.6	1222.2
37.5°	1096.6	1109.9	1142.4	1176.5	1188.1
40°	1049.1	1064.2	1098.7	1138.4	1153.6
42.5°	997.7	1018.7	1056.7	1100.4	1117.6
45°	946.4	965.5	1012.9	1062.4	1081.5
47.5°	891.5	914.4	965.5	1024.5	1047.4
50°	832.5	861.0	920.0	984.4	1009.4
52.5°	773.7	805.9	872.4	944.5	971.3
55°	716.5	746.9	826.7	904.8	933.3
57.5°	653.8	692.0	779.3	862.9	891.5
60°	589.2	631.1	731.7	819.0	849.6
62.5°	524.5	572.1	686.0	773.7	805.9
65°	459.9	513.3	633.0	726.1	758.5
67.5°	397.1	456.2	583.5	676.6	708.9
70°	325.0	399.2	530.2	621.6	653.8
72.5°	258.5	344.1	478.8	564.6	593.1
75°	199.5	290.9	421.9	499.8	511.2
77.5°	146.3	237.5	363.1	389.5	391.5
80°	98.9	190.0	277.6	273.7	277.6
82.5°	64.6	142.6	174.8	195.8	197.6
85°	38.0	83.7	102.7	114.1	116.0
87.5°	18.9	28.5	36.2	38.0	41.8
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)