

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: P732367

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732367  
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: 24CZ2-60HE-HRP-B2750-W2D-3000K  
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

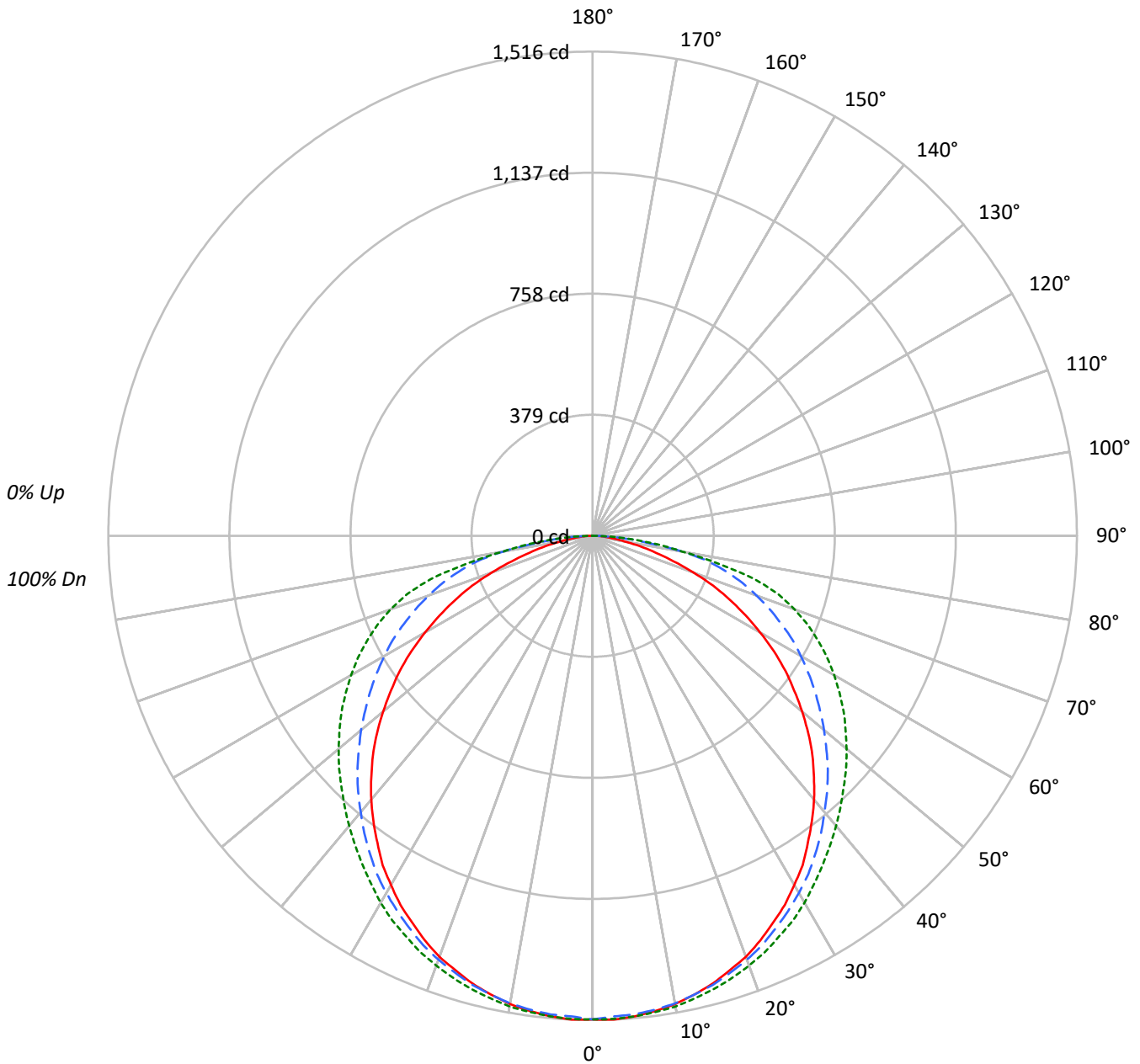
Lumens per Lamp: N/A  
Luminaire Lumens: 4667.0 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 45  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2137	2137	2137
5°	2140	2131	2140
10°	2134	2131	2145
15°	2121	2127	2147
20°	2107	2121	2151
25°	2081	2112	2154
30°	2057	2105	2162
35°	2023	2094	2164
40°	1987	2081	2185
45°	1942	2079	2219
50°	1879	2076	2278
55°	1812	2091	2360
60°	1710	2123	2465
65°	1579	2173	2603
70°	1379	2249	2774
75°	1118	2365	2866
80°	825	2320	2320
85°	633	1710	1929



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	3.1
10°-20°	411.9	8.8
20°-30°	627.1	13.4
30°-40°	761.4	16.3
40°-50°	804.4	17.2
50°-60°	759.1	16.3
60°-70°	631.2	13.5
70°-80°	415.3	8.9
80°-90°	113.2	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°	1182.4	25.3
0°-40°	1943.9	41.7
0°-60°	3507.4	75.2
0°-90°	4667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4667.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1510	1510	1504	1510	1510	143
15°	1452	1454	1456	1469	1469	409
25°	1336	1344	1356	1379	1383	616
35°	1174	1188	1215	1246	1256	735
45°	973	993	1041	1092	1112	749
55°	736	768	850	930	959	656
65°	473	528	651	746	780	467
75°	205	299	434	514	526	221
85°	39	86	106	117	119	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1514.3	1514.3	1514.3	1514.3	1514.3
2.5°	1516.2	1514.3	1506.3	1514.3	1514.3
5°	1510.4	1510.4	1504.4	1510.4	1510.4
7.5°	1500.5	1500.5	1496.6	1504.4	1504.4
10°	1488.9	1488.9	1486.7	1496.6	1496.6
12.5°	1471.3	1473.2	1471.3	1482.9	1482.9
15°	1451.7	1453.6	1455.6	1469.3	1469.3
17.5°	1426.3	1430.2	1434.1	1449.8	1451.7
20°	1402.9	1404.8	1412.5	1430.2	1432.1
22.5°	1371.5	1377.5	1387.2	1404.8	1410.6
25°	1336.4	1344.2	1356.0	1379.4	1383.3
27.5°	1303.1	1309.1	1324.6	1350.0	1357.9
30°	1262.3	1271.9	1291.5	1316.9	1326.5
32.5°	1223.1	1232.8	1256.2	1283.8	1291.5
35°	1174.3	1187.8	1215.4	1246.5	1256.2
37.5°	1127.4	1141.0	1174.3	1209.3	1221.2
40°	1078.4	1094.1	1129.4	1170.4	1185.9
42.5°	1025.7	1047.2	1086.4	1131.3	1148.9
45°	973.0	992.6	1041.4	1092.1	1111.7
47.5°	916.2	939.7	992.6	1053.0	1076.4
50°	855.8	885.1	945.7	1012.2	1037.5
52.5°	795.2	828.3	896.7	971.1	998.4
55°	736.5	767.9	849.8	930.0	959.3
57.5°	672.2	711.1	801.0	887.0	916.2
60°	605.8	648.8	752.2	842.1	873.2
62.5°	539.3	588.1	705.3	795.2	828.3
65°	472.9	527.5	650.7	746.4	779.5
67.5°	408.3	469.0	599.7	695.6	728.7
70°	334.2	410.3	545.1	638.9	672.2
72.5°	265.8	353.7	492.4	580.4	609.6
75°	205.1	298.9	433.7	513.9	525.5
77.5°	150.5	244.3	373.1	400.6	402.5
80°	101.5	195.5	285.4	281.3	285.4
82.5°	66.4	146.4	179.8	201.3	203.2
85°	39.1	86.0	105.6	117.2	119.1
87.5°	19.6	29.2	37.2	39.1	43.0
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)