

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: P843145

Luminaire Tested: **24CZ2-60HE-HRP-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843145  
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-UNV-B35  
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

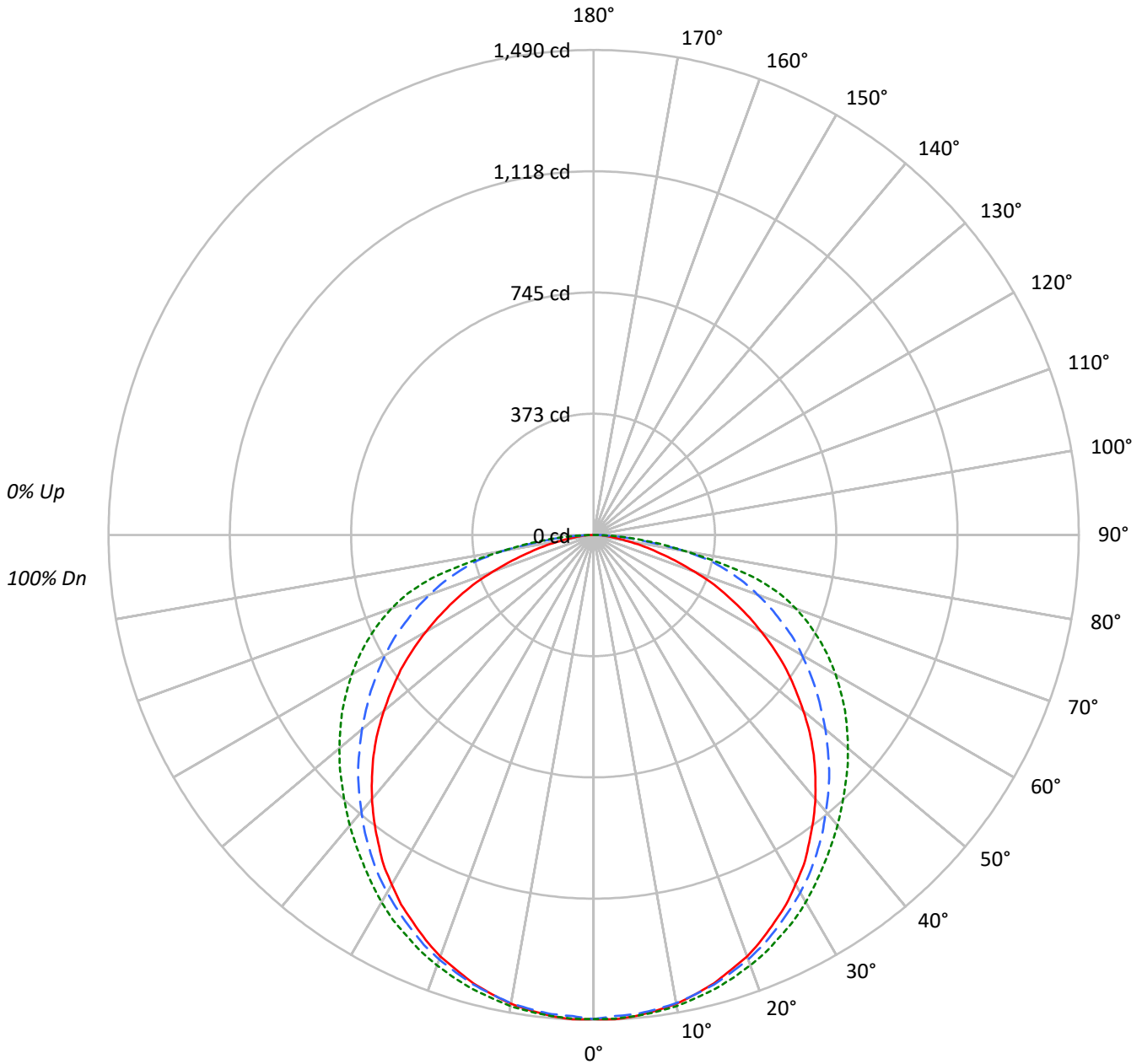
Lumens per Lamp: N/A  
Luminaire Lumens: 4585.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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°	2100	2100	2100
5°	2102	2094	2102
10°	2096	2093	2107
15°	2084	2089	2109
20°	2070	2084	2113
25°	2045	2075	2116
30°	2021	2068	2124
35°	1988	2057	2126
40°	1952	2044	2147
45°	1908	2042	2180
50°	1846	2040	2238
55°	1780	2054	2319
60°	1680	2086	2422
65°	1552	2135	2557
70°	1355	2210	2725
75°	1099	2324	2815
80°	810	2278	2278
85°	623	1679	1895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.9	3.1
10°-20°	404.7	8.8
20°-30°	616.1	13.4
30°-40°	748.0	16.3
40°-50°	790.3	17.2
50°-60°	745.7	16.3
60°-70°	620.1	13.5
70°-80°	408.0	8.9
80°-90°	111.2	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°	1161.7	25.3
0°-40°	1909.7	41.7
0°-60°	3445.8	75.2
0°-90°	4585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4585.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1484	1484	1478	1484	1484	141
15°	1426	1428	1430	1444	1444	402
25°	1313	1320	1332	1355	1359	606
35°	1154	1167	1194	1225	1234	722
45°	956	975	1023	1073	1092	736
55°	724	754	835	914	942	645
65°	465	518	639	733	766	459
75°	202	294	426	505	516	217
85°	38	84	104	115	117	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1487.7	1487.7	1487.7	1487.7	1487.7
2.5°	1489.6	1487.7	1479.8	1487.7	1487.7
5°	1483.9	1483.9	1477.9	1483.9	1483.9
7.5°	1474.1	1474.1	1470.3	1477.9	1477.9
10°	1462.7	1462.7	1460.6	1470.3	1470.3
12.5°	1445.4	1447.3	1445.4	1456.8	1456.8
15°	1426.2	1428.1	1430.0	1443.5	1443.5
17.5°	1401.3	1405.1	1408.9	1424.3	1426.2
20°	1378.2	1380.1	1387.7	1405.1	1407.0
22.5°	1347.4	1353.3	1362.8	1380.1	1385.8
25°	1313.0	1320.5	1332.2	1355.2	1359.0
27.5°	1280.2	1286.1	1301.3	1326.2	1334.1
30°	1240.1	1249.6	1268.8	1293.7	1303.2
32.5°	1201.6	1211.1	1234.1	1261.2	1268.8
35°	1153.7	1167.0	1194.0	1224.6	1234.1
37.5°	1107.6	1120.9	1153.7	1188.1	1199.7
40°	1059.4	1074.9	1109.5	1149.9	1165.1
42.5°	1007.7	1028.8	1067.3	1111.4	1128.7
45°	955.9	975.2	1023.1	1073.0	1092.2
47.5°	900.1	923.2	975.2	1034.5	1057.5
50°	840.8	869.5	929.1	994.4	1019.3
52.5°	781.2	813.7	880.9	954.0	980.9
55°	723.5	754.4	834.9	913.7	942.4
57.5°	660.4	698.6	786.9	871.4	900.1
60°	595.1	637.4	739.0	827.3	857.9
62.5°	529.8	577.8	692.9	781.2	813.7
65°	464.6	518.2	639.3	733.3	765.8
67.5°	401.2	460.8	589.2	683.4	715.9
70°	328.3	403.1	535.5	627.6	660.4
72.5°	261.1	347.5	483.8	570.2	598.9
75°	201.5	293.6	426.1	504.9	516.3
77.5°	147.9	240.0	366.5	393.6	395.5
80°	99.7	192.0	280.3	276.3	280.3
82.5°	65.3	143.9	176.6	197.7	199.6
85°	38.5	84.5	103.7	115.1	117.0
87.5°	19.2	28.7	36.6	38.5	42.3
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)