

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: P881242

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

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: P881242
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-UNV-B35
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

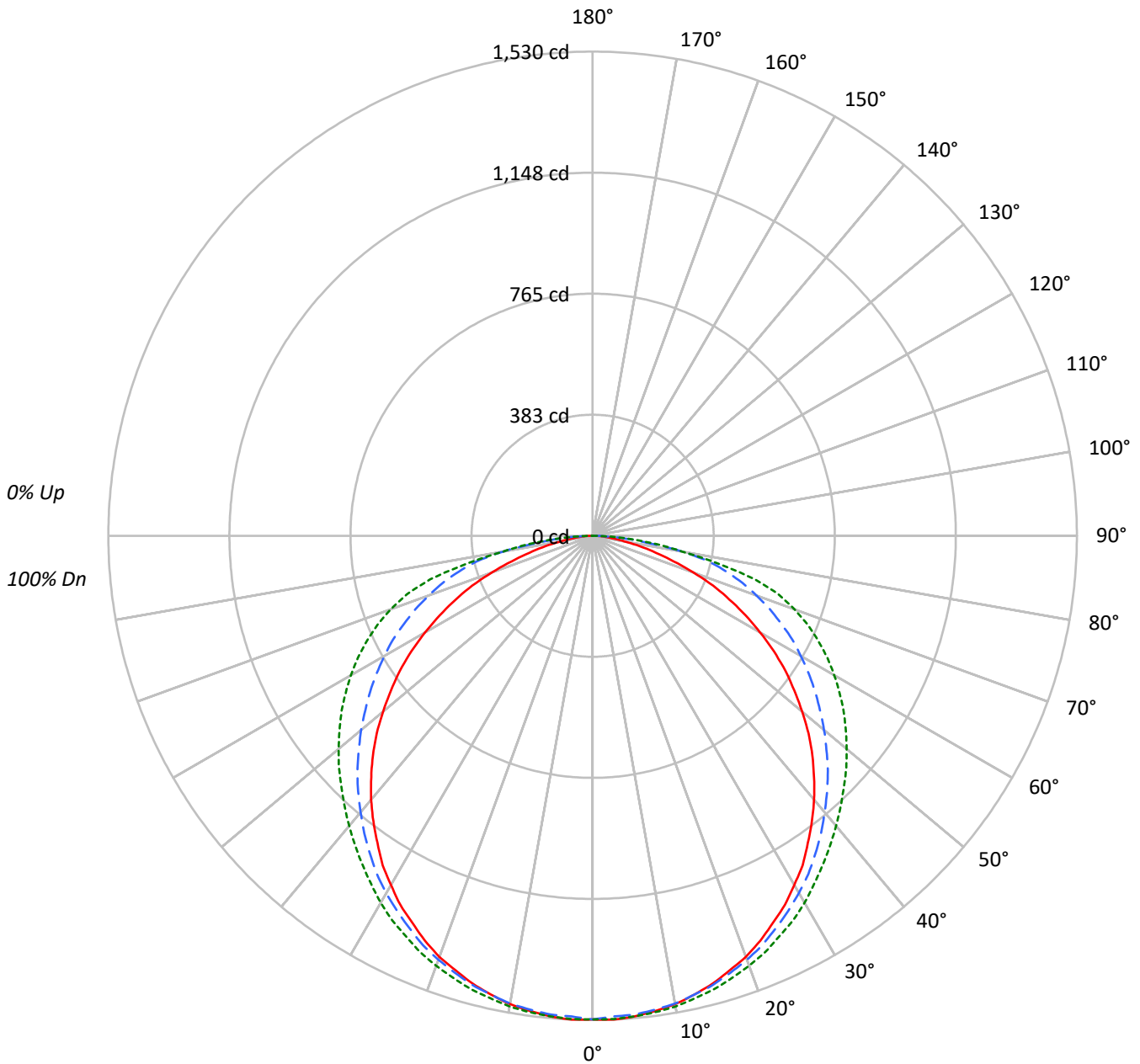
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4711.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

TEST NUMBER: P881242
CATALOG NUMBER: 24CZ2-60VHE-HRP-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P881242

CATALOG NUMBER: 24CZ2-60VHE-HRP-UNV-B35

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°	2157	2157	2157
5°	2160	2151	2160
10°	2154	2151	2165
15°	2141	2147	2167
20°	2127	2141	2171
25°	2101	2131	2174
30°	2076	2124	2182
35°	2042	2113	2185
40°	2006	2100	2205
45°	1960	2098	2240
50°	1897	2096	2300
55°	1829	2111	2383
60°	1726	2143	2488
65°	1594	2193	2629
70°	1392	2270	2799
75°	1129	2387	2893
80°	834	2342	2342
85°	640	1725	1948



TEST NUMBER: P881242

CATALOG NUMBER: 24CZ2-60VHE-HRP-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.1
10°-20°	415.8	8.8
20°-30°	633.0	13.4
30°-40°	768.6	16.3
40°-50°	812.0	17.2
50°-60°	766.3	16.3
60°-70°	637.1	13.5
70°-80°	419.1	8.9
80°-90°	114.3	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°	1193.6	25.3
0°-40°	1962.2	41.7
0°-60°	3540.5	75.2
0°-90°	4711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1525	1525	1519	1525	1525	145
15°	1465	1467	1469	1483	1483	413
25°	1349	1357	1369	1392	1396	622
35°	1185	1199	1227	1258	1268	742
45°	982	1002	1051	1102	1122	756
55°	744	775	858	939	968	662
65°	477	533	657	754	787	472
75°	207	302	438	519	530	223
85°	40	87	106	118	120	48
90°	0	0	0	0	0	



TEST NUMBER: P881242

CATALOG NUMBER: 24CZ2-60VHE-HRP-UNV-B35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1528.5	1528.5	1528.5	1528.5	1528.5
2.5°	1530.4	1528.5	1520.5	1528.5	1528.5
5°	1524.6	1524.6	1518.6	1524.6	1524.6
7.5°	1514.7	1514.7	1510.6	1518.6	1518.6
10°	1502.8	1502.8	1500.9	1510.6	1510.6
12.5°	1485.1	1486.9	1485.1	1496.8	1496.8
15°	1465.3	1467.3	1469.4	1483.2	1483.2
17.5°	1439.8	1443.7	1447.6	1463.4	1465.3
20°	1416.1	1417.9	1425.8	1443.7	1445.7
22.5°	1384.6	1390.5	1400.4	1417.9	1424.1
25°	1348.9	1356.8	1368.7	1392.4	1396.3
27.5°	1315.4	1321.5	1337.2	1362.9	1370.8
30°	1274.0	1283.9	1303.6	1329.2	1339.1
32.5°	1234.6	1244.5	1268.2	1295.6	1303.6
35°	1185.4	1199.2	1226.6	1258.3	1268.2
37.5°	1138.0	1151.8	1185.4	1220.8	1232.8
40°	1088.6	1104.3	1140.1	1181.3	1197.0
42.5°	1035.3	1057.1	1096.5	1141.8	1159.7
45°	982.1	1001.9	1051.1	1102.4	1122.2
47.5°	925.1	948.8	1001.9	1063.1	1086.8
50°	863.9	893.4	954.6	1021.5	1047.4
52.5°	802.8	836.3	905.3	980.1	1007.9
55°	743.5	775.0	857.8	938.9	968.4
57.5°	678.4	718.1	808.7	895.4	925.1
60°	611.4	654.9	759.3	849.9	881.6
62.5°	544.3	593.7	711.9	802.8	836.3
65°	477.2	532.6	656.8	753.5	787.1
67.5°	412.1	473.3	605.5	702.1	735.6
70°	337.3	414.2	550.1	645.0	678.4
72.5°	268.3	357.1	496.9	585.9	615.4
75°	207.0	301.9	437.8	518.6	530.5
77.5°	151.8	246.5	376.7	404.1	406.3
80°	102.6	197.1	288.1	284.0	288.1
82.5°	67.1	147.9	181.4	203.1	205.1
85°	39.5	86.9	106.5	118.4	120.3
87.5°	19.6	29.5	37.5	39.5	43.3
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)