

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: P843160

Luminaire Tested: **24CZ2-65HE-HRP-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843160
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: 24CZ2-65HE-HRP-UNV-B35
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

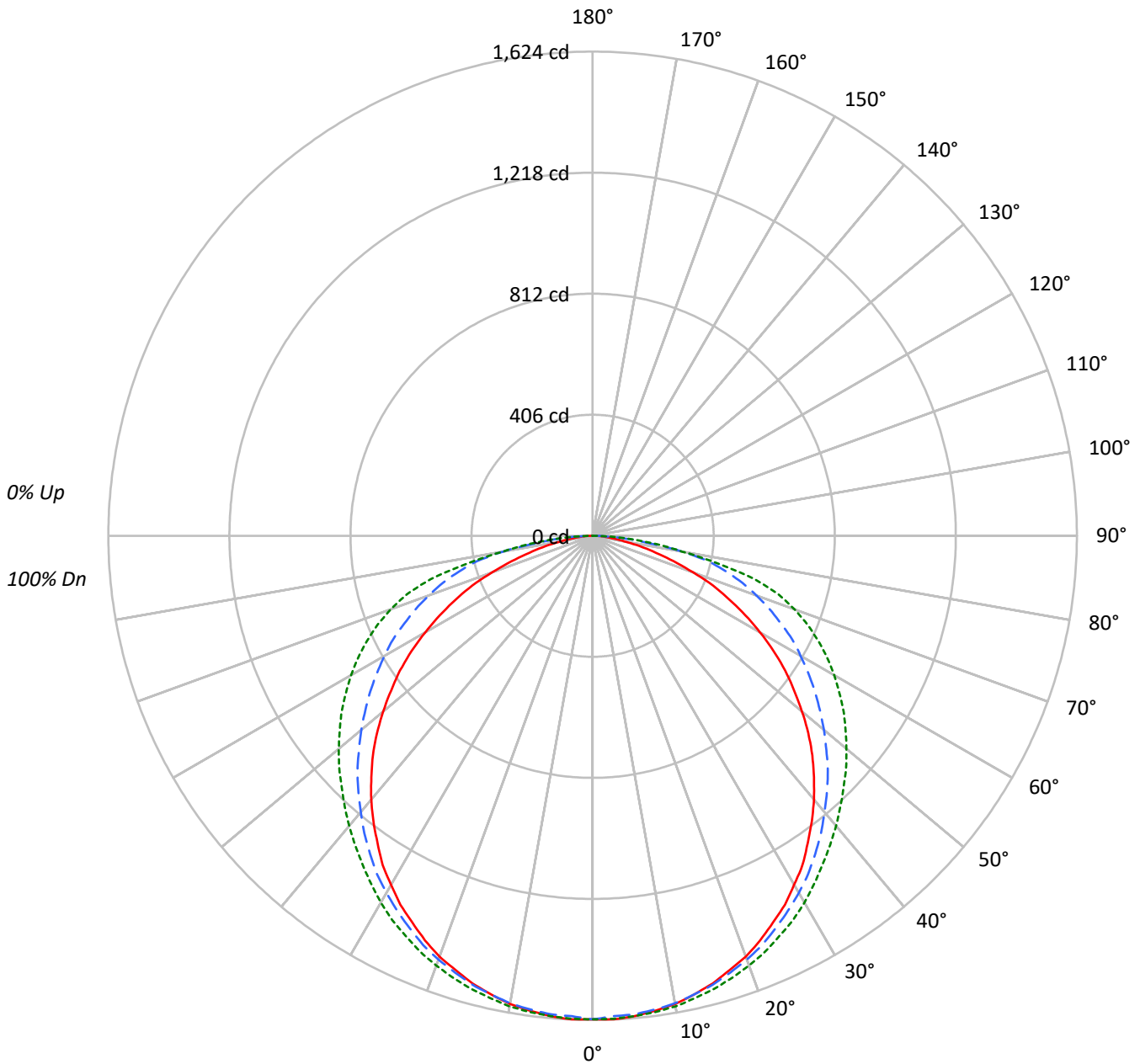
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4998.0 lumens
Efficiency: N/A
Efficacy: 100.0 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): 50
Input Voltage (V): NR
Input Current (A_{in}): 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°	2289	2289	2289
5°	2292	2282	2292
10°	2285	2282	2297
15°	2271	2278	2299
20°	2256	2272	2303
25°	2229	2261	2307
30°	2203	2254	2315
35°	2167	2243	2318
40°	2128	2228	2340
45°	2080	2226	2376
50°	2012	2224	2440
55°	1941	2239	2528
60°	1831	2274	2640
65°	1691	2327	2788
70°	1477	2409	2971
75°	1198	2533	3069
80°	883	2484	2484
85°	678	1831	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	3.1
10°-20°	441.1	8.8
20°-30°	671.6	13.4
30°-40°	815.4	16.3
40°-50°	861.5	17.2
50°-60°	812.9	16.3
60°-70°	675.9	13.5
70°-80°	444.7	8.9
80°-90°	121.2	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°	1266.3	25.3
0°-40°	2081.7	41.7
0°-60°	3756.1	75.2
0°-90°	4998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1618	1618	1611	1618	1618	154
15°	1555	1557	1559	1574	1574	438
25°	1431	1440	1452	1477	1481	660
35°	1258	1272	1302	1335	1345	787
45°	1042	1063	1115	1170	1191	802
55°	789	822	910	996	1027	703
65°	506	565	697	799	835	501
75°	220	320	464	550	563	237
85°	42	92	113	126	128	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1621.7	1621.7	1621.7	1621.7	1621.7
2.5°	1623.7	1621.7	1613.1	1621.7	1621.7
5°	1617.5	1617.5	1611.1	1617.5	1617.5
7.5°	1606.9	1606.9	1602.8	1611.1	1611.1
10°	1594.5	1594.5	1592.2	1602.8	1602.8
12.5°	1575.6	1577.7	1575.6	1588.0	1588.0
15°	1554.6	1556.7	1558.8	1573.5	1573.5
17.5°	1527.5	1531.6	1535.8	1552.6	1554.6
20°	1502.4	1504.4	1512.7	1531.6	1533.7
22.5°	1468.7	1475.2	1485.6	1504.4	1510.7
25°	1431.2	1439.5	1452.2	1477.3	1481.4
27.5°	1395.5	1402.0	1418.5	1445.7	1454.2
30°	1351.8	1362.1	1383.1	1410.3	1420.6
32.5°	1309.9	1320.2	1345.3	1374.8	1383.1
35°	1257.6	1272.1	1301.6	1335.0	1345.3
37.5°	1207.4	1221.9	1257.6	1295.1	1307.8
40°	1154.9	1171.7	1209.5	1253.4	1270.0
42.5°	1098.4	1121.5	1163.4	1211.5	1230.4
45°	1042.0	1063.0	1115.3	1169.6	1190.6
47.5°	981.2	1006.3	1063.0	1127.7	1152.8
50°	916.5	947.8	1012.8	1084.0	1111.1
52.5°	851.6	887.0	960.3	1040.0	1069.2
55°	788.7	822.3	910.1	996.0	1027.3
57.5°	719.9	761.5	857.8	949.9	981.2
60°	648.7	694.8	805.5	901.8	935.2
62.5°	577.6	629.8	755.3	851.6	887.0
65°	506.4	564.9	696.8	799.3	834.8
67.5°	437.3	502.3	642.2	745.0	780.4
70°	357.9	439.4	583.8	684.2	719.9
72.5°	284.6	378.8	527.4	621.5	652.9
75°	219.7	320.1	464.5	550.4	562.8
77.5°	161.2	261.6	399.5	429.0	431.1
80°	108.7	209.3	305.6	301.2	305.6
82.5°	71.2	156.8	192.5	215.5	217.6
85°	41.9	92.1	113.1	125.5	127.6
87.5°	21.0	31.3	39.8	41.9	46.1
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)