

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: P843164

Luminaire Tested: **24CZ2-65HE-RDP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65HE-RDP-UNV-B40
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

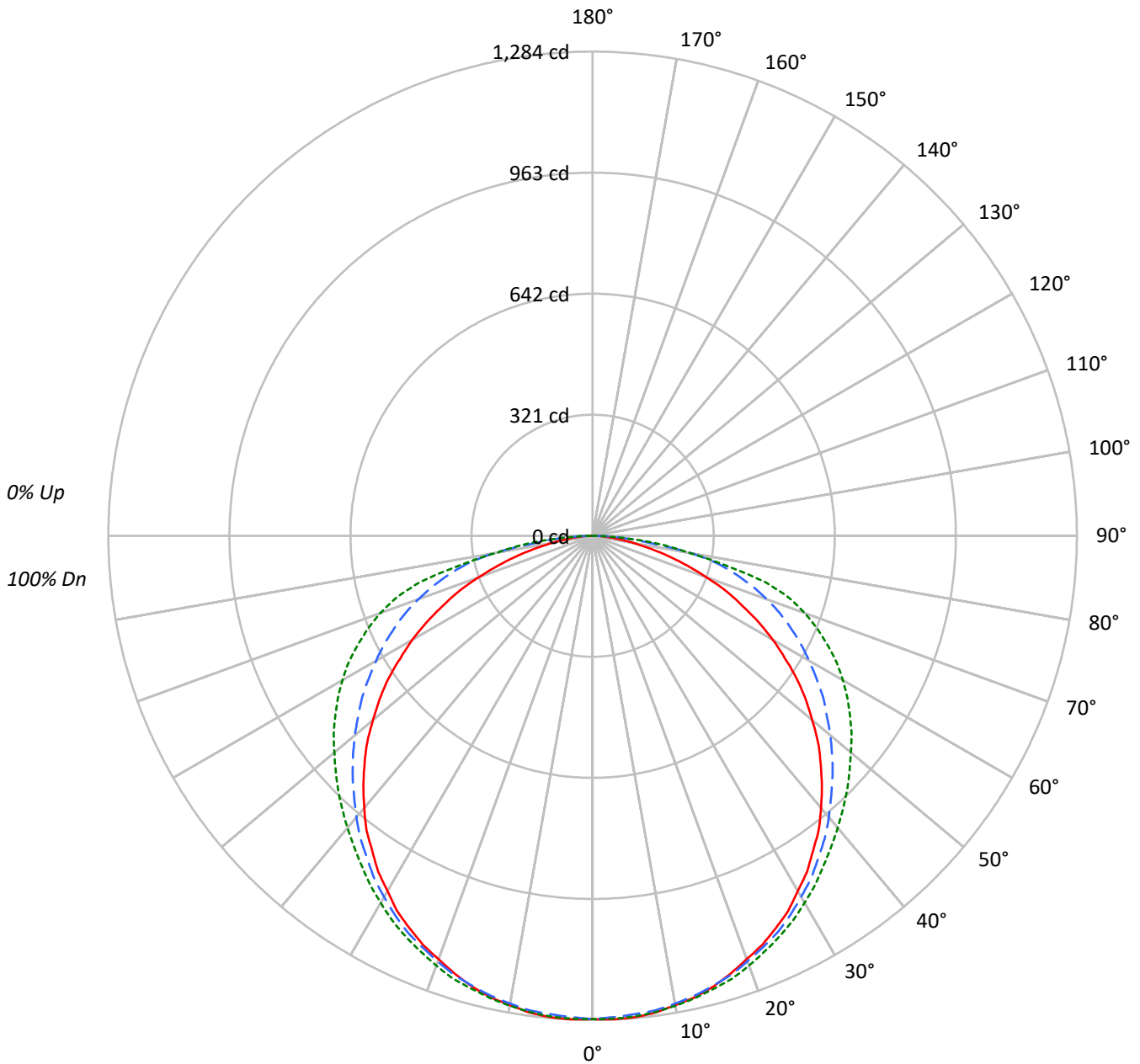
Lumens per Lamp: N/A
Luminaire Lumens: 4076.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1809	1809	1809
5°	1816	1805	1813
10°	1811	1805	1814
15°	1808	1805	1817
20°	1794	1804	1822
25°	1788	1807	1826
30°	1773	1802	1832
35°	1756	1797	1839
40°	1736	1795	1863
45°	1707	1796	1905
50°	1669	1807	1962
55°	1627	1836	2050
60°	1558	1872	2163
65°	1458	1938	2296
70°	1327	2027	2470
75°	1124	2139	2580
80°	888	2151	2086
85°	656	1639	1831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.0
10°-20°	349.9	8.6
20°-30°	535.1	13.1
30°-40°	654.2	16.0
40°-50°	697.2	17.1
50°-60°	666.6	16.4
60°-70°	564.7	13.9
70°-80°	379.5	9.3
80°-90°	107.1	2.6
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°	1006.7	24.7
0°-40°	1660.8	40.7
0°-60°	3024.7	74.2
0°-90°	4076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1282	1280	1274	1280	1280	122
15°	1237	1237	1235	1246	1243	349
25°	1148	1152	1160	1171	1173	529
35°	1019	1027	1043	1063	1068	638
45°	855	869	900	938	954	660
55°	661	685	746	805	833	589
65°	437	481	580	657	688	434
75°	206	281	392	459	473	221
85°	40	83	101	109	113	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.8	1281.8	1281.8	1281.8	1281.8
2.5°	1283.7	1283.7	1277.7	1281.8	1281.8
5°	1281.8	1279.8	1273.8	1279.8	1279.8
7.5°	1275.7	1273.8	1269.6	1275.7	1273.8
10°	1263.5	1263.5	1259.6	1265.7	1265.7
12.5°	1253.5	1251.6	1249.4	1257.4	1255.5
15°	1237.4	1237.4	1235.2	1245.5	1243.3
17.5°	1217.2	1219.1	1221.1	1229.1	1231.3
20°	1194.8	1198.9	1200.9	1213.1	1213.1
22.5°	1174.5	1176.7	1180.6	1192.8	1192.8
25°	1148.5	1152.4	1160.4	1170.6	1172.6
27.5°	1122.1	1124.1	1134.3	1148.5	1150.4
30°	1087.7	1093.8	1105.8	1122.1	1124.1
32.5°	1057.3	1063.4	1077.5	1093.8	1097.7
35°	1019.0	1027.0	1043.1	1063.4	1067.5
37.5°	984.6	990.7	1011.0	1033.1	1039.2
40°	942.2	954.2	974.4	1000.7	1011.0
42.5°	899.8	911.7	936.1	970.5	982.7
45°	855.2	869.3	899.8	938.1	954.2
47.5°	810.8	826.9	861.3	905.6	923.9
50°	760.1	780.3	822.8	873.5	893.7
52.5°	711.6	736.0	782.5	839.1	865.4
55°	661.1	685.3	746.0	804.7	833.0
57.5°	604.6	636.8	703.6	770.3	800.6
60°	551.9	582.1	663.1	736.0	766.2
62.5°	495.4	535.8	622.6	699.4	729.9
65°	436.6	481.2	580.2	657.0	687.5
67.5°	384.2	432.7	537.8	614.6	645.0
70°	321.5	382.0	491.2	568.0	598.5
72.5°	262.8	329.6	442.7	517.5	545.8
75°	206.2	281.1	392.2	459.0	473.2
77.5°	153.6	232.6	339.6	367.9	357.9
80°	109.2	186.0	264.7	250.6	256.7
82.5°	70.7	141.6	163.8	186.0	192.1
85°	40.5	82.9	101.2	109.2	113.1
87.5°	18.3	30.2	40.5	40.5	38.5
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)