

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: P880983

Luminaire Tested: **24CZ2-65VHE-RDP-B2750-W2D-3000K**

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: P880983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65VHE-RDP-B2750-W2D-3000K
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

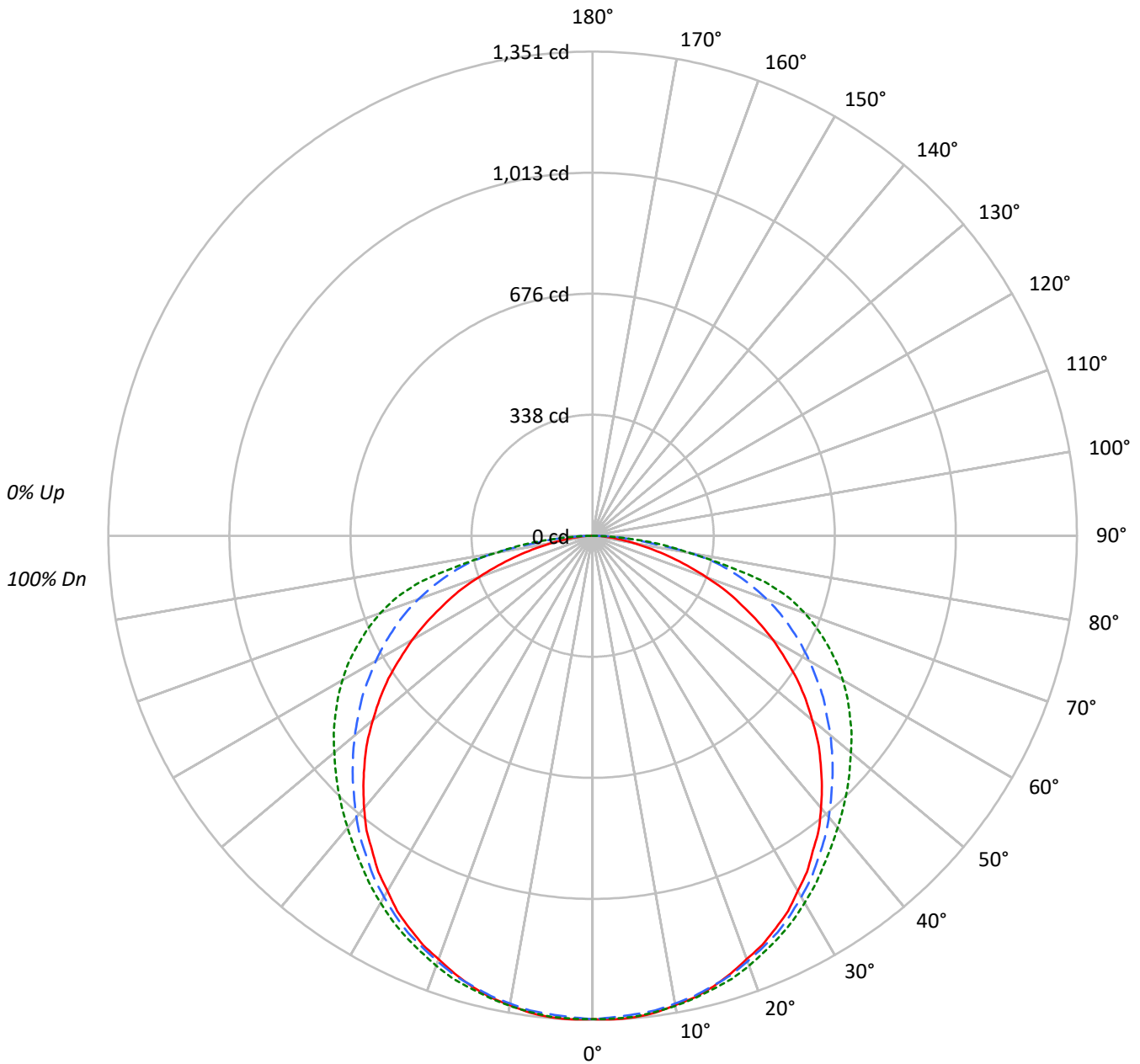
Lumens per Lamp: N/A
Luminaire Lumens: 4289.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 51
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

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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°	1904	1904	1904
5°	1911	1899	1908
10°	1906	1899	1909
15°	1902	1899	1912
20°	1888	1898	1917
25°	1882	1902	1922
30°	1865	1897	1928
35°	1847	1891	1935
40°	1827	1889	1960
45°	1796	1890	2004
50°	1756	1901	2065
55°	1711	1932	2156
60°	1639	1970	2276
65°	1535	2039	2415
70°	1396	2134	2598
75°	1183	2251	2715
80°	934	2264	2195
85°	690	1723	1930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	3.0
10°-20°	368.2	8.6
20°-30°	563.1	13.1
30°-40°	688.3	16.0
40°-50°	733.7	17.1
50°-60°	701.5	16.4
60°-70°	594.2	13.9
70°-80°	399.4	9.3
80°-90°	112.7	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°	1059.3	24.7
0°-40°	1747.6	40.7
0°-60°	3182.7	74.2
0°-90°	4289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1349	1347	1340	1347	1347	128
15°	1302	1302	1300	1310	1308	367
25°	1208	1213	1221	1232	1234	557
35°	1072	1081	1098	1119	1123	672
45°	900	915	947	987	1004	694
55°	696	721	785	847	876	620
65°	460	506	610	691	723	456
75°	217	296	413	483	498	232
85°	43	87	106	115	119	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.8	1348.8	1348.8	1348.8	1348.8
2.5°	1350.9	1350.9	1344.5	1348.8	1348.8
5°	1348.8	1346.8	1340.3	1346.8	1346.8
7.5°	1342.4	1340.3	1336.0	1342.4	1340.3
10°	1329.7	1329.7	1325.4	1331.8	1331.8
12.5°	1318.9	1316.9	1314.8	1323.3	1321.2
15°	1301.9	1301.9	1299.8	1310.4	1308.3
17.5°	1280.7	1282.8	1285.1	1293.6	1295.7
20°	1257.2	1261.6	1263.7	1276.6	1276.6
22.5°	1236.0	1238.1	1242.5	1255.2	1255.2
25°	1208.4	1212.6	1221.1	1231.7	1234.0
27.5°	1180.6	1182.9	1193.5	1208.4	1210.5
30°	1144.4	1150.9	1163.8	1180.6	1182.9
32.5°	1112.6	1118.9	1133.8	1150.9	1155.2
35°	1072.1	1080.7	1097.7	1118.9	1123.2
37.5°	1036.0	1042.2	1063.6	1087.1	1093.3
40°	991.5	1004.0	1025.4	1053.0	1063.6
42.5°	946.7	959.5	985.1	1021.0	1033.7
45°	899.9	914.9	946.7	987.2	1004.0
47.5°	853.2	870.2	906.4	953.1	972.2
50°	799.8	821.2	865.9	919.0	940.4
52.5°	748.9	774.4	823.3	882.9	910.5
55°	695.5	721.1	785.0	846.7	876.4
57.5°	636.1	670.0	740.4	810.6	842.4
60°	580.8	612.6	697.8	774.4	806.2
62.5°	521.2	563.8	655.2	736.0	768.0
65°	459.5	506.5	610.5	691.4	723.3
67.5°	404.3	455.4	565.9	646.7	678.5
70°	338.2	402.0	517.1	597.7	629.7
72.5°	276.5	346.7	466.0	544.7	574.4
75°	216.9	295.6	412.8	483.0	497.9
77.5°	161.8	244.5	357.3	387.2	376.6
80°	114.9	195.9	278.6	263.6	270.1
82.5°	74.6	148.9	172.4	195.9	201.9
85°	42.6	87.3	106.4	114.9	119.2
87.5°	19.1	32.0	42.6	42.6	40.5
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)