

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: P880974

Luminaire Tested: **24CZ2-65VHE-B2750-W2D-3500K**

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: P880974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65VHE-B2750-W2D-3500K
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

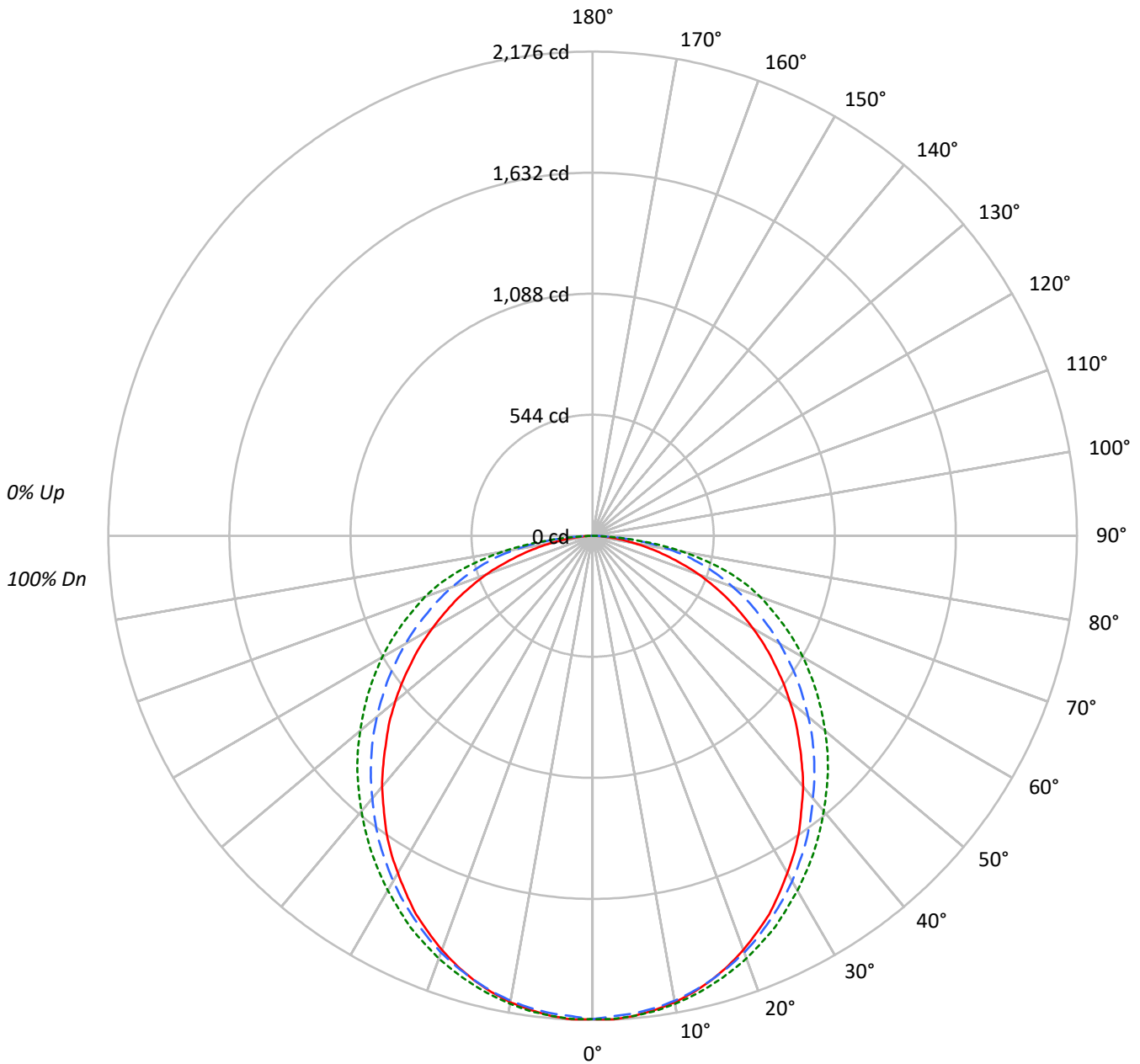
Lumens per Lamp: N/A
Luminaire Lumens: 6287.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3066	3066	3066
5°	3068	3052	3068
10°	3051	3041	3061
15°	3020	3018	3048
20°	2975	2993	3036
25°	2923	2956	3021
30°	2852	2921	2999
35°	2788	2884	2987
40°	2712	2837	2975
45°	2619	2808	2984
50°	2540	2776	2993
55°	2447	2757	3027
60°	2345	2744	3082
65°	2235	2734	3162
70°	2104	2762	3307
75°	1850	2819	3439
80°	1544	2840	3318
85°	1103	2434	2466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	3.3
10°-20°	585.0	9.3
20°-30°	877.6	14.0
30°-40°	1047.8	16.7
40°-50°	1085.3	17.3
50°-60°	999.1	15.9
60°-70°	805.9	12.8
70°-80°	526.6	8.4
80°-90°	154.4	2.5
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°	1667.9	26.5
0°-40°	2715.7	43.2
0°-60°	4800.1	76.4
0°-90°	6287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2172	2172	2172	2172	2172	
5°	2165	2163	2154	2166	2165	206
15°	2067	2067	2066	2086	2086	582
25°	1877	1881	1898	1933	1940	863
35°	1618	1632	1674	1720	1734	1011
45°	1312	1345	1407	1470	1495	1014
55°	994	1037	1120	1203	1230	890
65°	669	715	819	912	947	662
75°	339	403	517	606	631	362
85°	68	118	150	159	152	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2172.5	2172.5	2172.5	2172.5	2172.5
2.5°	2175.5	2172.5	2161.4	2174.5	2173.5
5°	2165.4	2163.4	2154.3	2166.4	2165.4
7.5°	2149.2	2148.2	2141.1	2154.3	2154.3
10°	2128.9	2126.9	2121.8	2137.0	2136.0
12.5°	2100.5	2099.5	2096.5	2114.7	2113.7
15°	2066.8	2066.8	2065.8	2086.3	2086.3
17.5°	2026.3	2027.3	2031.3	2054.7	2055.7
20°	1980.6	1984.7	1992.8	2019.2	2021.2
22.5°	1928.7	1936.8	1948.0	1977.6	1980.6
25°	1877.0	1881.1	1898.3	1932.8	1939.9
27.5°	1813.9	1824.3	1846.6	1882.1	1889.2
30°	1750.1	1764.2	1792.6	1829.3	1840.5
32.5°	1687.0	1699.3	1732.8	1774.4	1787.6
35°	1618.0	1632.2	1673.8	1719.6	1733.8
37.5°	1541.8	1564.1	1607.9	1660.6	1675.8
40°	1471.8	1492.1	1539.7	1598.8	1615.0
42.5°	1391.5	1416.8	1474.8	1534.7	1554.9
45°	1312.2	1344.8	1406.7	1469.8	1495.1
47.5°	1238.2	1264.5	1337.7	1408.7	1431.0
50°	1156.8	1187.3	1264.5	1339.8	1363.1
52.5°	1076.7	1113.2	1191.3	1270.6	1296.0
55°	994.4	1037.0	1120.3	1202.7	1230.0
57.5°	915.1	957.9	1044.1	1131.5	1159.9
60°	830.9	876.5	972.1	1056.2	1091.9
62.5°	749.6	795.2	895.8	987.3	1020.7
65°	669.3	715.1	818.7	912.0	946.7
67.5°	586.1	635.8	746.5	837.0	870.5
70°	509.9	557.5	669.3	765.8	801.3
72.5°	422.5	479.4	593.2	688.5	722.2
75°	339.3	403.2	517.0	606.4	630.7
77.5°	262.0	326.1	439.7	506.8	522.0
80°	190.0	254.9	349.4	396.1	408.3
82.5°	122.9	190.0	252.9	284.3	288.4
85°	68.1	117.8	150.3	159.4	152.3
87.5°	24.3	44.6	43.6	35.5	28.4
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)