

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: P880988

Luminaire Tested: **24CZ2-65VHE-S-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: P880988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65VHE-S-B2750-W2D-3000K
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

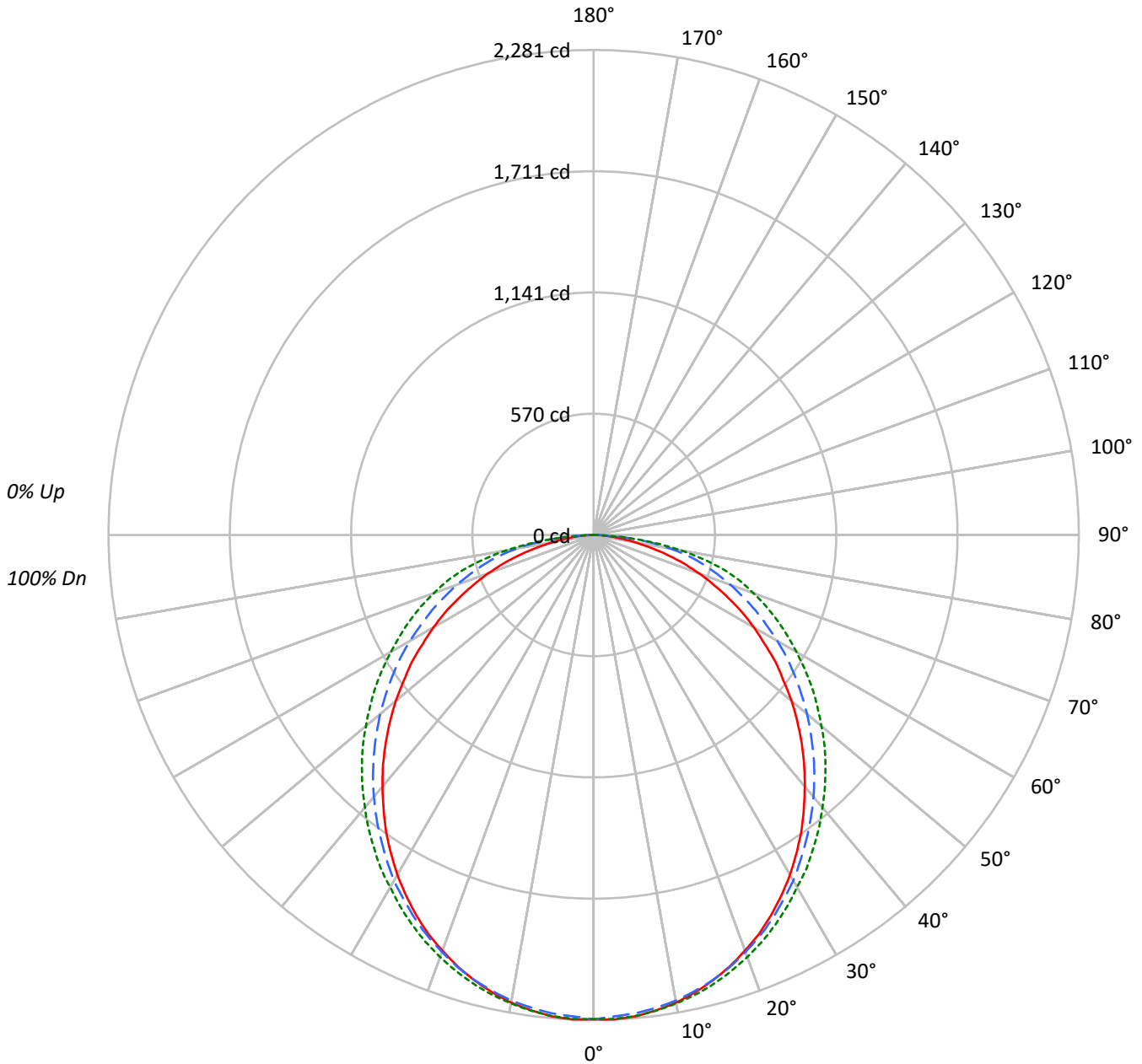
Lumens per Lamp: N/A
Luminaire Lumens: 6526.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57																			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3215	3215	3215
5°	3220	3200	3217
10°	3201	3188	3206
15°	3168	3167	3194
20°	3125	3134	3173
25°	3073	3100	3148
30°	3008	3061	3118
35°	2933	3007	3101
40°	2846	2962	3083
45°	2760	2916	3077
50°	2667	2876	3069
55°	2572	2841	3086
60°	2454	2814	3107
65°	2323	2803	3183
70°	2168	2818	3295
75°	1929	2899	3472
80°	1577	2962	3390
85°	1112	2588	2640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	3.3
10°-20°	613.3	9.4
20°-30°	919.4	14.1
30°-40°	1095.0	16.8
40°-50°	1129.1	17.3
50°-60°	1030.3	15.8
60°-70°	823.8	12.6
70°-80°	538.1	8.2
80°-90°	161.6	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°	1748.1	26.8
0°-40°	2843.1	43.6
0°-60°	5002.5	76.7
0°-90°	6526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2278	2278	2278	2278	2278	
5°	2273	2268	2258	2273	2270	216
15°	2168	2170	2167	2186	2186	611
25°	1973	1977	1990	2020	2022	909
35°	1702	1714	1745	1789	1800	1063
45°	1383	1408	1461	1522	1541	1066
55°	1045	1075	1154	1231	1254	931
65°	696	743	839	922	953	690
75°	354	413	532	617	637	376
85°	69	123	160	163	163	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2278.0	2278.0	2278.0	2278.0	2278.0
2.5°	2281.2	2278.0	2266.0	2280.1	2278.0
5°	2272.6	2268.1	2258.5	2272.6	2270.5
7.5°	2255.3	2253.1	2243.5	2259.6	2257.4
10°	2233.9	2231.8	2224.3	2240.3	2237.1
12.5°	2204.0	2202.9	2197.5	2216.8	2214.6
15°	2168.5	2169.5	2167.4	2185.8	2185.8
17.5°	2127.8	2126.7	2131.0	2153.5	2151.3
20°	2080.5	2081.6	2087.0	2112.8	2112.8
22.5°	2031.4	2030.3	2042.1	2067.7	2069.9
25°	1973.4	1976.6	1990.5	2019.6	2021.7
27.5°	1911.2	1916.7	1933.8	1967.0	1970.2
30°	1845.9	1852.3	1878.0	1909.0	1913.3
32.5°	1774.1	1788.0	1811.5	1851.3	1862.0
35°	1702.2	1714.0	1745.2	1789.0	1799.7
37.5°	1622.9	1642.1	1677.6	1725.7	1739.9
40°	1544.6	1564.0	1607.9	1658.4	1673.3
42.5°	1465.2	1485.8	1536.0	1592.9	1609.0
45°	1382.9	1407.5	1461.0	1522.1	1541.4
47.5°	1298.2	1327.1	1385.0	1451.3	1472.9
50°	1214.6	1243.5	1310.0	1378.4	1397.9
52.5°	1124.5	1160.9	1231.7	1305.7	1324.9
55°	1045.2	1075.1	1154.5	1230.6	1254.1
57.5°	951.9	992.6	1077.3	1154.5	1176.9
60°	869.4	906.8	996.9	1075.1	1100.8
62.5°	785.8	824.3	914.3	1003.3	1027.0
65°	695.7	742.8	839.2	921.8	953.0
67.5°	610.0	659.2	758.0	845.7	877.9
70°	525.3	575.5	682.9	772.9	798.6
72.5°	441.6	494.3	605.7	693.6	723.5
75°	353.7	412.8	531.7	617.4	636.7
77.5°	271.2	336.6	456.6	514.6	528.5
80°	194.0	265.8	364.4	406.4	417.1
82.5°	127.5	197.2	272.3	294.7	291.5
85°	68.7	123.2	159.8	163.0	163.0
87.5°	26.7	49.4	50.5	38.5	36.4
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)