

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: P843172

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65HE-UNV-B35
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

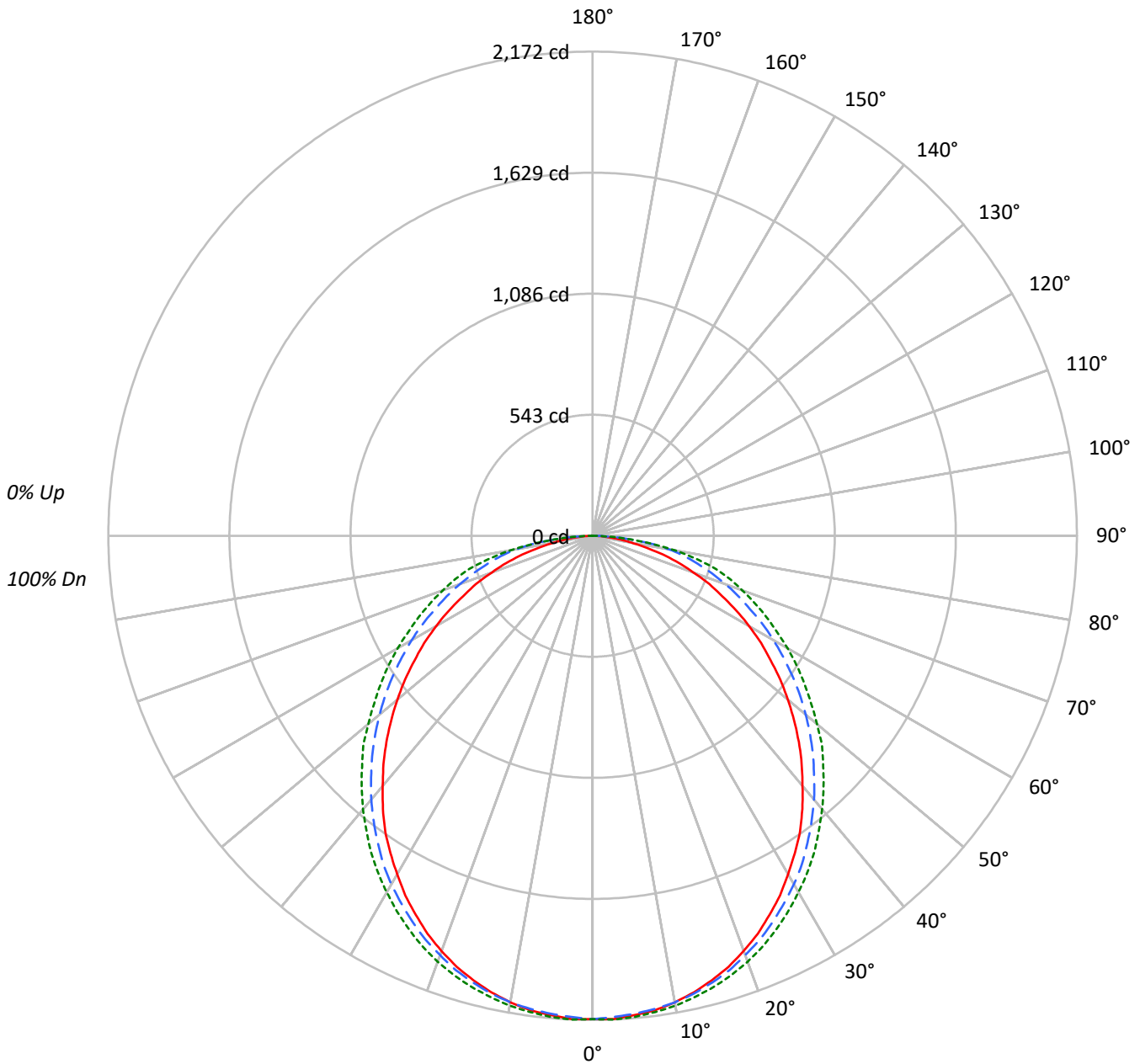
Lumens per Lamp: N/A
Luminaire Lumens: 6172.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3060	3060	3060
5°	3058	3050	3069
10°	3046	3046	3068
15°	3016	3031	3062
20°	2977	3006	3053
25°	2922	2977	3035
30°	2856	2943	3010
35°	2793	2895	2986
40°	2698	2846	2951
45°	2610	2790	2919
50°	2510	2738	2884
55°	2397	2687	2856
60°	2286	2645	2849
65°	2141	2599	2867
70°	1982	2613	2945
75°	1775	2662	3110
80°	1434	2820	3043
85°	1078	2474	2413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.3	3.3
10°-20°	586.5	9.5
20°-30°	881.7	14.3
30°-40°	1050.2	17.0
40°-50°	1074.9	17.4
50°-60°	967.7	15.7
60°-70°	760.0	12.3
70°-80°	493.2	8.0
80°-90°	152.5	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°	1673.5	27.1
0°-40°	2723.7	44.1
0°-60°	4766.3	77.2
0°-90°	6172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2168	2168	2168	2168	2168	
5°	2158	2162	2152	2164	2166	205
15°	2064	2070	2074	2092	2096	582
25°	1876	1892	1911	1943	1949	864
35°	1621	1641	1680	1721	1733	1011
45°	1308	1339	1398	1451	1463	1008
55°	974	1018	1092	1149	1161	873
65°	641	690	778	843	859	638
75°	326	388	488	555	570	344
85°	67	124	153	149	149	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2168.4	2168.4	2168.4	2168.4	<i>2168.4</i>
2.5°	<i>2170.3</i>	<i>2170.3</i>	<i>2160.3</i>	<i>2170.3</i>	<i>2172.1</i>
5°	2158.4	2162.5	2152.5	2164.3	<i>2166.2</i>
7.5°	2146.6	2146.6	2140.7	2152.5	<i>2154.7</i>
10°	2125.1	2127.0	2125.1	2138.8	<i>2140.7</i>
12.5°	2097.7	2101.5	2103.6	2117.3	<i>2119.2</i>
15°	2064.4	2070.3	2074.1	2091.8	<i>2095.8</i>
17.5°	2027.1	2033.0	2042.7	2062.3	<i>2066.3</i>
20°	1982.0	1989.8	2001.6	2027.1	<i>2033.0</i>
22.5°	1933.1	1940.9	1960.5	1983.9	<i>1993.8</i>
25°	1876.2	1891.8	1911.4	1942.8	<i>1948.7</i>
27.5°	1819.3	1833.0	1858.5	1891.8	<i>1899.8</i>
30°	1752.6	1774.1	1805.6	1838.9	<i>1846.7</i>
32.5°	1687.9	1709.4	1746.7	1782.2	<i>1791.9</i>
35°	1621.3	1640.9	1680.1	1721.2	<i>1733.0</i>
37.5°	1544.8	1570.3	1613.5	1654.6	<i>1666.4</i>
40°	1464.5	1495.9	1544.8	1588.0	<i>1601.7</i>
42.5°	1387.9	1421.2	1470.4	1517.4	<i>1533.0</i>
45°	1307.6	1339.0	1397.9	1450.8	<i>1462.6</i>
47.5°	1225.2	1260.6	1323.2	1376.1	<i>1395.7</i>
50°	1143.0	1180.3	1246.9	1301.7	<i>1313.5</i>
52.5°	1060.6	1099.8	1170.4	1229.2	<i>1235.1</i>
55°	974.3	1017.6	1092.0	1148.9	<i>1160.7</i>
57.5°	895.9	933.2	1013.6	1072.4	<i>1086.1</i>
60°	809.7	850.8	937.0	992.1	<i>1009.5</i>
62.5°	727.3	770.5	860.7	915.5	<i>931.1</i>
65°	641.1	690.2	778.3	843.0	<i>858.6</i>
67.5°	566.7	613.7	707.7	770.5	<i>786.1</i>
70°	480.2	533.4	633.3	698.0	<i>713.6</i>
72.5°	405.8	460.6	560.8	623.3	<i>647.0</i>
75°	325.5	388.1	488.2	554.8	<i>570.4</i>
77.5°	247.1	319.6	421.4	472.4	<i>472.4</i>
80°	176.4	253.0	347.0	370.6	<i>374.4</i>
82.5°	115.7	190.1	256.8	254.9	<i>254.9</i>
85°	66.6	123.5	152.8	149.0	<i>149.0</i>
87.5°	25.5	51.0	54.8	54.8	<i>52.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)