

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: P843158

Luminaire Tested: **24CZ2-60HE-UNV-B40**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P843158
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: 24CZ2-60HE-UNV-B40
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

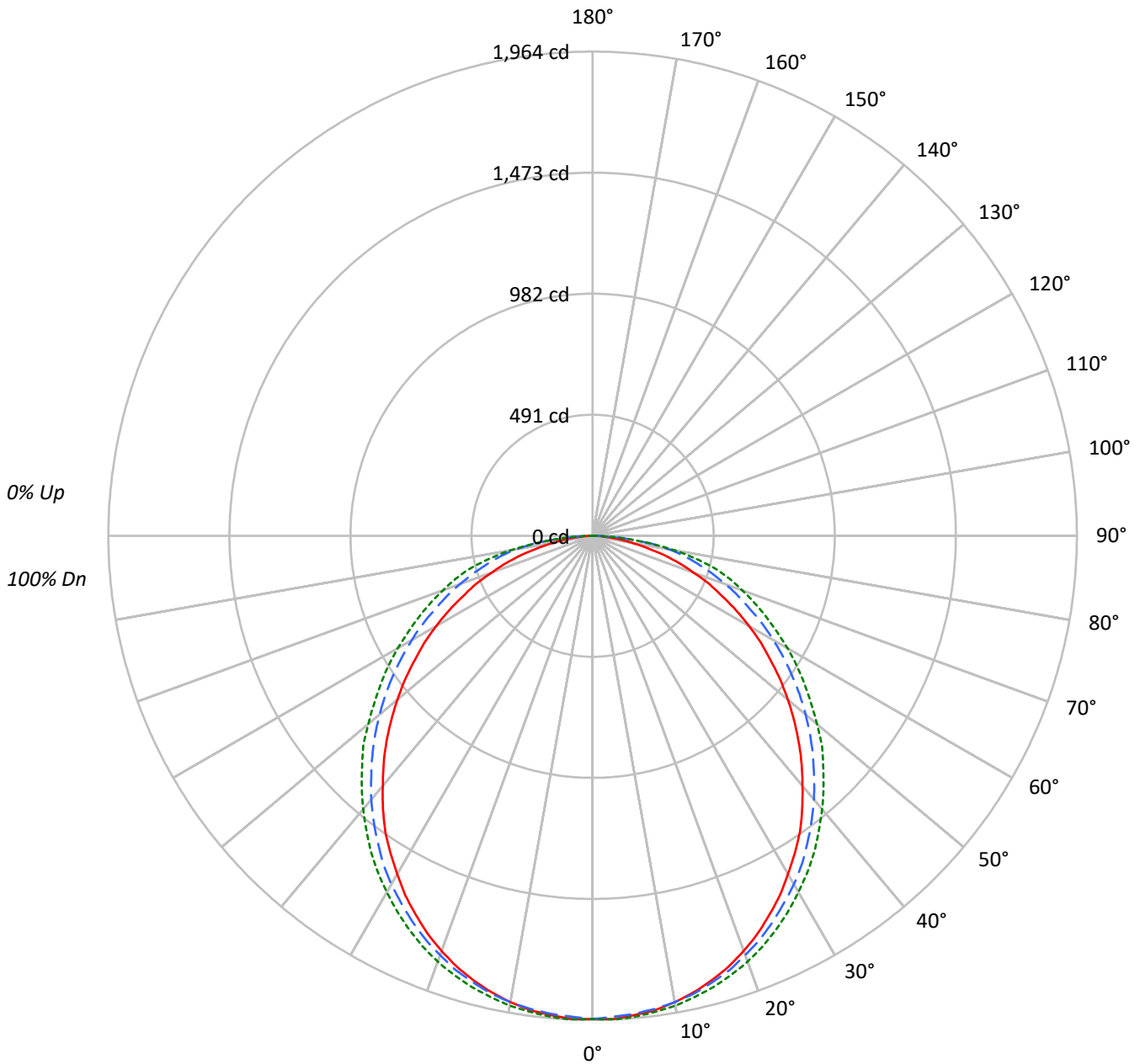
Lumens per Lamp: N/A
Luminaire Lumens: 5580.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 45
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					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	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°	2767	2767	2767
5°	2765	2757	2775
10°	2753	2753	2774
15°	2727	2740	2769
20°	2691	2718	2761
25°	2641	2691	2744
30°	2582	2660	2721
35°	2525	2617	2699
40°	2439	2573	2668
45°	2360	2522	2639
50°	2269	2475	2607
55°	2168	2429	2582
60°	2066	2391	2576
65°	1936	2350	2592
70°	1791	2362	2662
75°	1605	2407	2812
80°	1296	2550	2751
85°	975	2238	2181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	3.3
10°-20°	530.3	9.5
20°-30°	797.1	14.3
30°-40°	949.5	17.0
40°-50°	971.8	17.4
50°-60°	874.9	15.7
60°-70°	687.1	12.3
70°-80°	445.9	8.0
80°-90°	137.9	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°	1513.0	27.1
0°-40°	2462.5	44.1
0°-60°	4309.1	77.2
0°-90°	5580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1960	1960	1960	1960	1960	
5°	1951	1955	1946	1957	1958	185
15°	1866	1872	1875	1891	1895	526
25°	1696	1710	1728	1756	1762	781
35°	1466	1484	1519	1556	1567	914
45°	1182	1211	1264	1312	1322	911
55°	881	920	987	1039	1049	790
65°	580	624	704	762	776	577
75°	294	351	441	502	516	311
85°	60	112	138	135	135	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1960.4	1960.4	1960.4	1960.4	<i>1960.4</i>
2.5°	<i>1962.1</i>	<i>1962.1</i>	<i>1953.1</i>	<i>1962.1</i>	<i>1963.8</i>
5°	1951.4	1955.0	1946.1	1956.8	<i>1958.5</i>
7.5°	1940.7	1940.7	1935.4	1946.1	<i>1948.0</i>
10°	1921.3	1923.0	1921.3	1933.7	<i>1935.4</i>
12.5°	1896.5	1899.9	1901.9	1914.3	<i>1916.0</i>
15°	1866.4	1871.8	1875.2	1891.2	<i>1894.8</i>
17.5°	1832.7	1838.0	1846.8	1864.5	<i>1868.1</i>
20°	1791.9	1798.9	1809.6	1832.7	<i>1838.0</i>
22.5°	1747.7	1754.7	1772.5	1793.6	<i>1802.6</i>
25°	1696.2	1710.3	1728.0	1756.4	<i>1761.8</i>
27.5°	1644.8	1657.1	1680.2	1710.3	<i>1717.6</i>
30°	1584.5	1604.0	1632.4	1662.5	<i>1669.5</i>
32.5°	1526.0	1545.5	1579.2	1611.2	<i>1620.0</i>
35°	1465.8	1483.5	1519.0	1556.1	<i>1566.8</i>
37.5°	1396.6	1419.7	1458.8	1495.9	<i>1506.6</i>
40°	1324.0	1352.4	1396.6	1435.7	<i>1448.1</i>
42.5°	1254.8	1284.9	1329.3	1371.8	<i>1385.9</i>
45°	1182.2	1210.6	1263.8	1311.6	<i>1322.3</i>
47.5°	1107.7	1139.7	1196.3	1244.1	<i>1261.9</i>
50°	1033.4	1067.1	1127.3	1176.9	<i>1187.5</i>
52.5°	958.8	994.3	1058.1	1111.3	<i>1116.6</i>
55°	880.9	920.0	987.2	1038.7	<i>1049.4</i>
57.5°	810.0	843.7	916.3	969.5	<i>981.9</i>
60°	732.0	769.2	847.1	896.9	<i>912.7</i>
62.5°	657.5	696.6	778.2	827.7	<i>841.8</i>
65°	579.6	624.0	703.6	762.2	<i>776.3</i>
67.5°	512.3	554.8	639.8	696.6	<i>710.7</i>
70°	434.1	482.2	572.5	631.0	<i>645.1</i>
72.5°	366.9	416.4	507.0	563.6	<i>584.9</i>
75°	294.3	350.9	441.4	501.6	<i>515.7</i>
77.5°	223.4	288.9	381.0	427.1	<i>427.1</i>
80°	159.5	228.7	313.7	335.1	<i>338.5</i>
82.5°	104.6	171.9	232.1	230.4	<i>230.4</i>
85°	60.2	111.7	138.2	134.7	<i>134.7</i>
87.5°	23.1	46.1	49.5	49.5	<i>47.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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







(END OF REPORT)