

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: P732213

Luminaire Tested: **24CZ2-40HE-B2750-W2D-3500K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732213
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: 24CZ2-40HE-B2750-W2D-3500K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

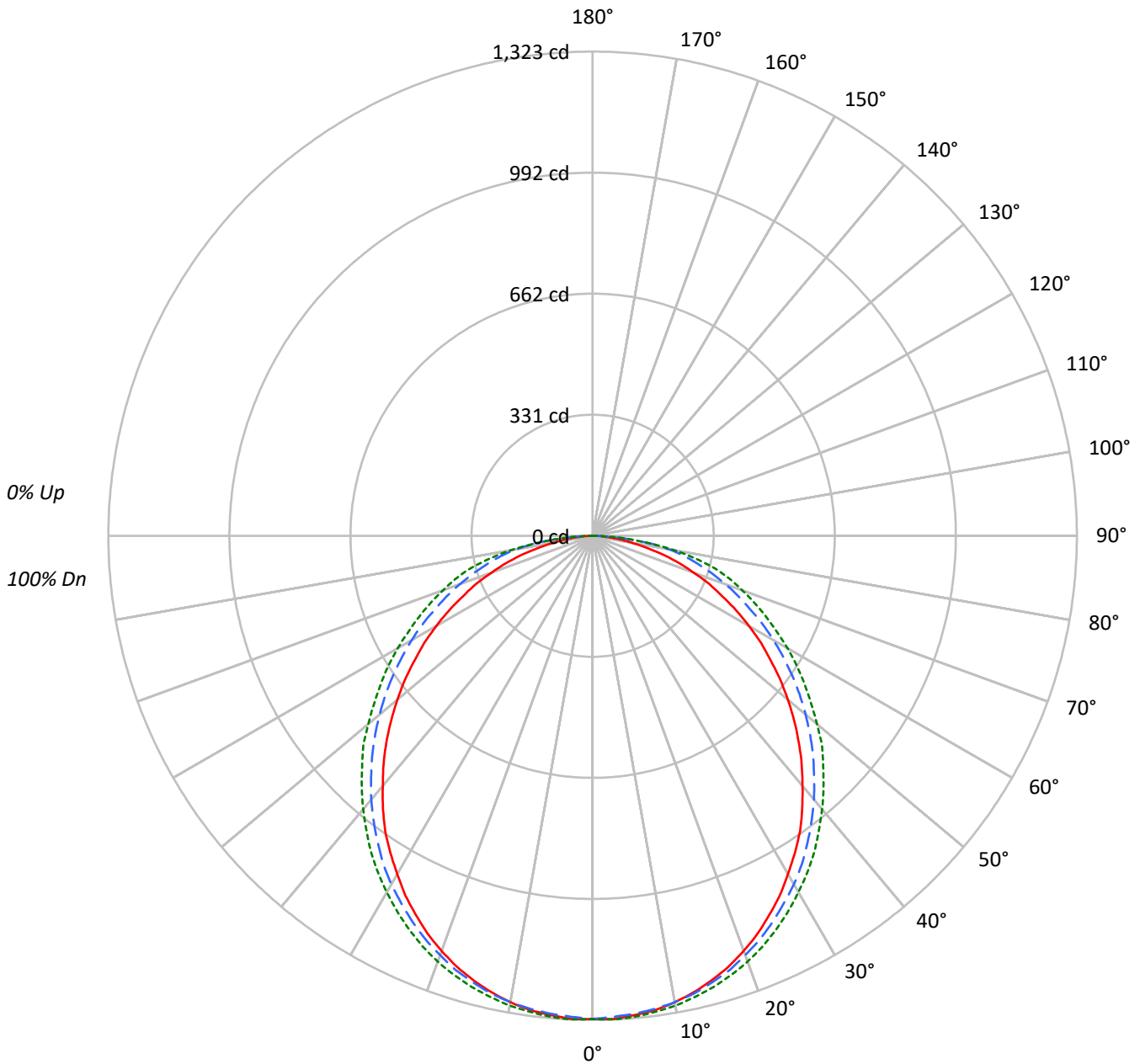
Lumens per Lamp: N/A
Luminaire Lumens: 3759.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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				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°	1864	1864	1864
5°	1862	1857	1869
10°	1855	1855	1868
15°	1837	1846	1865
20°	1813	1831	1860
25°	1779	1813	1848
30°	1740	1792	1833
35°	1701	1763	1819
40°	1643	1733	1797
45°	1590	1699	1778
50°	1528	1667	1757
55°	1460	1637	1739
60°	1392	1611	1736
65°	1304	1583	1746
70°	1207	1592	1793
75°	1081	1622	1894
80°	874	1717	1853
85°	657	1508	1470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.3
10°-20°	357.2	9.5
20°-30°	537.0	14.3
30°-40°	639.6	17.0
40°-50°	654.6	17.4
50°-60°	589.4	15.7
60°-70°	462.8	12.3
70°-80°	300.4	8.0
80°-90°	92.9	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°	1019.2	27.1
0°-40°	1658.8	44.1
0°-60°	2902.9	77.2
0°-90°	3759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1315	1317	1311	1318	1319	125
15°	1257	1261	1263	1274	1276	355
25°	1143	1152	1164	1183	1187	526
35°	987	999	1023	1048	1056	616
45°	796	816	851	884	891	614
55°	593	620	665	700	707	532
65°	390	420	474	513	523	389
75°	198	236	297	338	347	210
85°	41	75	93	91	91	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.6	1320.6	1320.6	1320.6	<i>1320.6</i>
2.5°	<i>1321.8</i>	<i>1321.8</i>	<i>1315.7</i>	<i>1321.8</i>	<i>1322.9</i>
5°	1314.6	1317.0	1311.0	1318.2	<i>1319.3</i>
7.5°	1307.4	1307.4	1303.8	1311.0	<i>1312.3</i>
10°	1294.3	1295.4	1294.3	1302.6	<i>1303.8</i>
12.5°	1277.6	1279.9	1281.2	1289.5	<i>1290.7</i>
15°	1257.3	1260.9	1263.2	1274.0	<i>1276.5</i>
17.5°	1234.6	1238.2	1244.1	1256.0	<i>1258.5</i>
20°	1207.1	1211.9	1219.1	1234.6	<i>1238.2</i>
22.5°	1177.3	1182.1	1194.0	1208.3	<i>1214.3</i>
25°	1142.7	1152.2	1164.1	1183.2	<i>1186.8</i>
27.5°	1108.0	1116.3	1131.9	1152.2	<i>1157.1</i>
30°	1067.4	1080.5	1099.7	1119.9	<i>1124.7</i>
32.5°	1028.0	1041.1	1063.8	1085.4	<i>1091.3</i>
35°	987.4	999.4	1023.3	1048.3	<i>1055.5</i>
37.5°	940.8	956.4	982.7	1007.7	<i>1014.9</i>
40°	891.9	911.1	940.8	967.2	<i>975.5</i>
42.5°	845.3	865.6	895.5	924.1	<i>933.6</i>
45°	796.4	815.5	851.4	883.6	<i>890.8</i>
47.5°	746.2	767.8	805.9	838.1	<i>850.1</i>
50°	696.1	718.9	759.4	792.8	<i>800.0</i>
52.5°	645.9	669.8	712.8	748.6	<i>752.2</i>
55°	593.4	619.7	665.1	699.7	<i>706.9</i>
57.5°	545.7	568.4	617.3	653.1	<i>661.5</i>
60°	493.1	518.2	570.7	604.2	<i>614.9</i>
62.5°	442.9	469.3	524.2	557.6	<i>567.1</i>
65°	390.4	420.4	474.0	513.4	<i>522.9</i>
67.5°	345.1	373.7	431.0	469.3	<i>478.8</i>
70°	292.5	324.8	385.7	425.1	<i>434.6</i>
72.5°	247.1	280.5	341.5	379.6	<i>394.0</i>
75°	198.2	236.4	297.4	337.9	<i>347.4</i>
77.5°	150.5	194.6	256.6	287.7	<i>287.7</i>
80°	107.5	154.1	211.3	225.7	<i>228.0</i>
82.5°	70.5	115.8	156.4	155.2	<i>155.2</i>
85°	40.6	75.2	93.1	90.8	<i>90.8</i>
87.5°	15.5	31.1	33.4	33.4	<i>32.2</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)