

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: P843061

Luminaire Tested: **24CZ2-40HE-S-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843061
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-S-UNV-B35
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

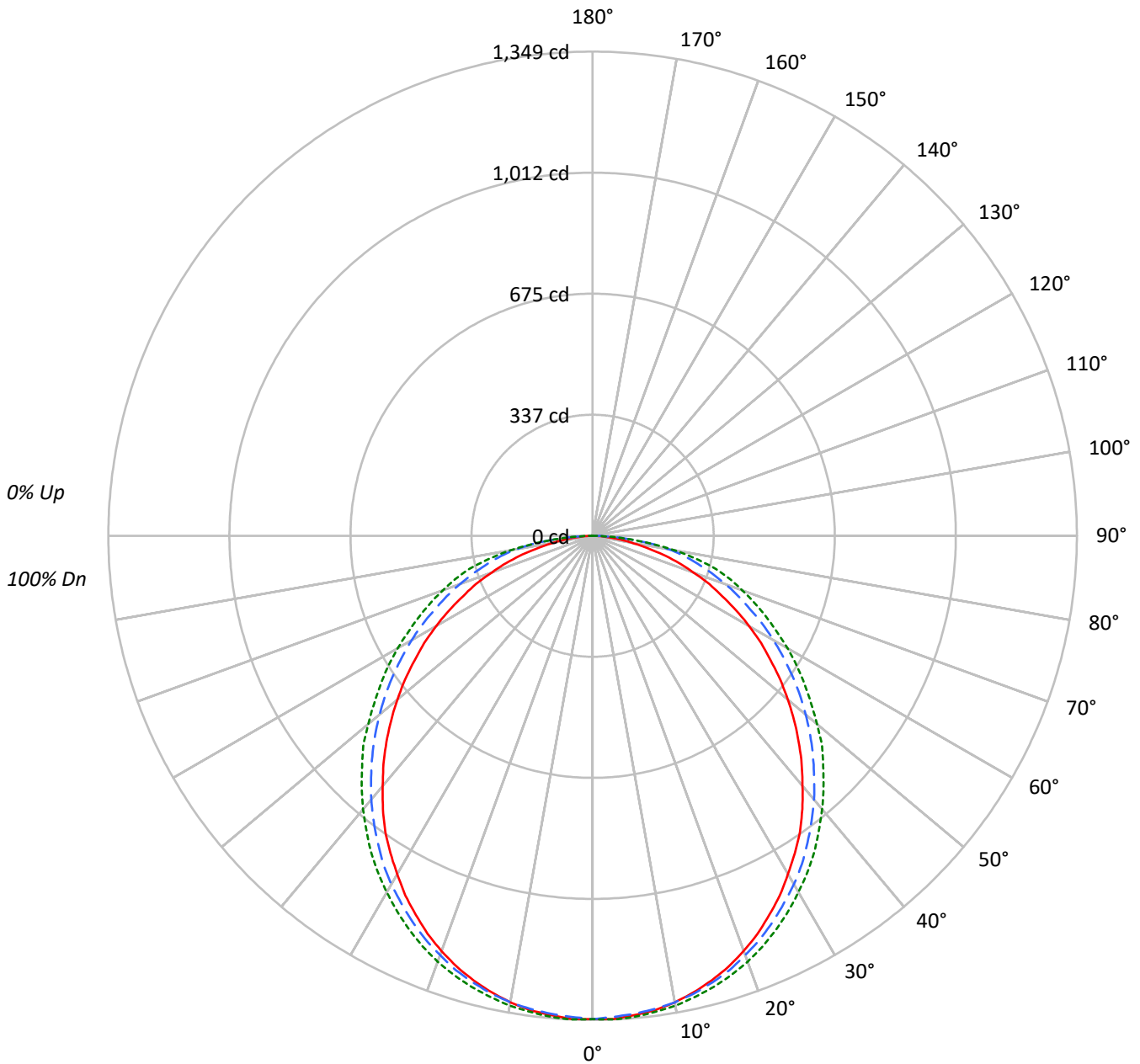
Lumens per Lamp: N/A
Luminaire Lumens: 3833.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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°	1901	1901	1901
5°	1899	1894	1906
10°	1891	1891	1905
15°	1873	1882	1902
20°	1849	1867	1896
25°	1814	1848	1885
30°	1774	1827	1869
35°	1735	1798	1854
40°	1676	1768	1833
45°	1621	1733	1813
50°	1558	1700	1791
55°	1489	1669	1774
60°	1420	1643	1770
65°	1329	1614	1781
70°	1231	1623	1829
75°	1102	1653	1932
80°	891	1751	1890
85°	670	1537	1500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	3.3
10°-20°	364.3	9.5
20°-30°	547.5	14.3
30°-40°	652.2	17.0
40°-50°	667.5	17.4
50°-60°	601.0	15.7
60°-70°	472.0	12.3
70°-80°	306.3	8.0
80°-90°	94.7	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°	1039.3	27.1
0°-40°	1691.5	44.1
0°-60°	2960.0	77.2
0°-90°	3833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1340	1343	1337	1344	1345	127
15°	1282	1286	1288	1299	1302	362
25°	1165	1175	1187	1206	1210	537
35°	1007	1019	1043	1069	1076	628
45°	812	832	868	901	908	626
55°	605	632	678	714	721	542
65°	398	429	483	524	533	396
75°	202	241	303	345	354	214
85°	41	77	95	93	93	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.6	1346.6	1346.6	1346.6	1346.6
2.5°	1347.8	1347.8	1341.6	1347.8	1349.0
5°	1340.5	1343.0	1336.8	1344.1	1345.3
7.5°	1333.1	1333.1	1329.5	1336.8	1338.1
10°	1319.8	1320.9	1319.8	1328.3	1329.5
12.5°	1302.8	1305.1	1306.4	1314.9	1316.1
15°	1282.1	1285.7	1288.1	1299.1	1301.6
17.5°	1258.9	1262.6	1268.6	1280.8	1283.3
20°	1230.9	1235.7	1243.1	1258.9	1262.6
22.5°	1200.5	1205.4	1217.5	1232.1	1238.2
25°	1165.2	1174.8	1187.0	1206.5	1210.2
27.5°	1129.8	1138.3	1154.2	1174.8	1179.8
30°	1088.4	1101.8	1121.3	1142.0	1146.8
32.5°	1048.3	1061.6	1084.8	1106.8	1112.8
35°	1006.9	1019.1	1043.4	1068.9	1076.3
37.5°	959.4	975.2	1002.0	1027.6	1034.9
40°	909.5	929.0	959.4	986.2	994.7
42.5°	862.0	882.6	913.1	942.3	952.0
45°	812.1	831.6	868.1	901.0	908.3
47.5°	760.9	782.9	821.8	854.6	866.8
50°	709.8	733.0	774.4	808.4	815.7
52.5°	658.6	683.0	726.9	763.4	767.0
55°	605.1	631.9	678.2	713.5	720.8
57.5°	556.4	579.6	629.4	666.0	674.5
60°	502.9	528.4	581.9	616.1	627.0
62.5°	451.7	478.5	534.5	568.6	578.3
65°	398.1	428.6	483.3	523.5	533.2
67.5°	351.9	381.1	439.5	478.5	488.2
70°	298.2	331.2	393.3	433.5	443.2
72.5°	252.0	286.0	348.2	387.1	401.8
75°	202.1	241.0	303.2	344.6	354.3
77.5°	153.4	198.5	261.7	293.4	293.4
80°	109.6	157.1	215.5	230.2	232.5
82.5°	71.9	118.1	159.5	158.3	158.3
85°	41.4	76.7	94.9	92.6	92.6
87.5°	15.8	31.7	34.0	34.0	32.9
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)