

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: P732282

Luminaire Tested: **24CZ2-45HE-SQR-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45HE-SQR-B2750-W2D-3000K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

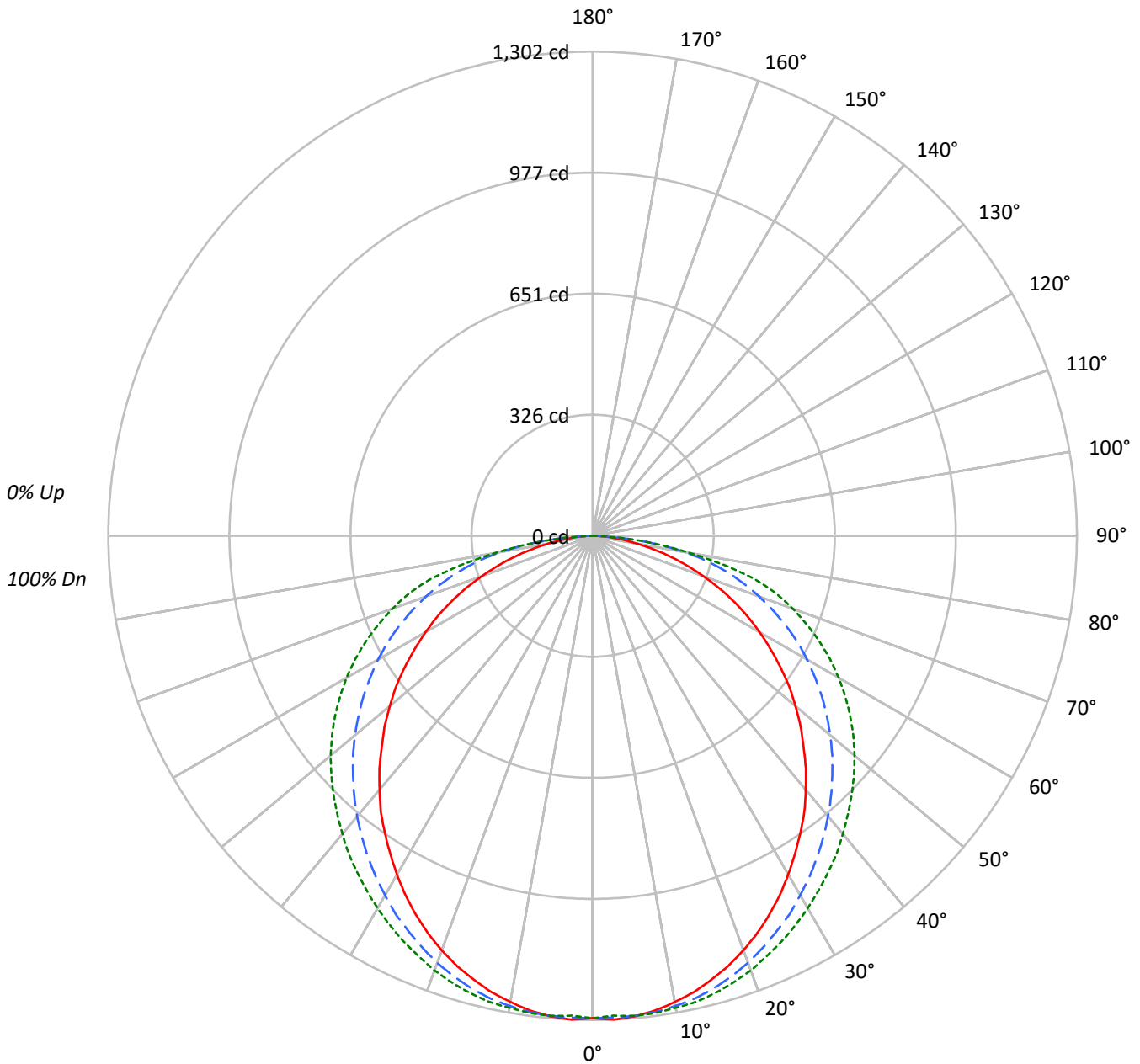
Lumens per Lamp: N/A
Luminaire Lumens: 4058.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1831	1831	1831
5°	1838	1836	1836
10°	1824	1840	1847
15°	1805	1840	1860
20°	1781	1836	1868
25°	1751	1826	1874
30°	1714	1819	1885
35°	1678	1815	1902
40°	1642	1815	1928
45°	1599	1818	1966
50°	1562	1830	2018
55°	1517	1850	2080
60°	1464	1880	2156
65°	1401	1915	2246
70°	1299	1963	2362
75°	1177	2031	2470
80°	991	2037	2123
85°	758	1540	1540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	3.0
10°-20°	354.3	8.7
20°-30°	538.1	13.3
30°-40°	654.5	16.1
40°-50°	696.8	17.2
50°-60°	663.7	16.4
60°-70°	555.0	13.7
70°-80°	370.1	9.1
80°-90°	102.4	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°	1015.5	25.0
0°-40°	1670.0	41.2
0°-60°	3030.5	74.7
0°-90°	4058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1297	1289	1296	1296	1296	123
15°	1235	1238	1260	1269	1273	348
25°	1124	1139	1172	1193	1203	518
35°	974	1002	1053	1088	1104	610
45°	801	844	911	962	985	619
55°	616	670	752	818	846	551
65°	419	481	574	644	673	414
75°	216	284	372	436	453	229
85°	47	87	95	94	95	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.1	1297.1	1297.1	1297.1	1297.1
2.5°	1302.5	1293.1	1297.1	1297.1	1291.8
5°	1297.1	1289.1	1295.8	1295.8	1295.8
7.5°	1287.8	1281.0	1291.8	1294.5	1294.5
10°	1273.0	1270.4	1283.8	1287.8	1289.1
12.5°	1257.0	1255.6	1274.4	1279.6	1283.8
15°	1235.4	1238.2	1259.6	1269.0	1273.0
17.5°	1212.8	1218.0	1242.2	1255.6	1259.6
20°	1186.0	1194.0	1222.2	1235.4	1243.6
22.5°	1156.5	1168.5	1198.0	1214.0	1223.4
25°	1124.3	1138.9	1172.5	1192.6	1203.4
27.5°	1089.5	1108.3	1147.1	1169.8	1180.6
30°	1051.9	1073.3	1116.3	1143.1	1156.5
32.5°	1013.0	1038.5	1085.5	1114.9	1130.9
35°	974.2	1002.4	1053.3	1088.1	1104.1
37.5°	935.4	963.4	1019.8	1057.3	1077.5
40°	891.1	924.6	985.0	1026.4	1046.6
42.5°	848.3	884.3	948.8	994.2	1015.8
45°	801.3	844.3	911.1	962.2	985.0
47.5°	758.4	801.3	873.7	927.3	952.8
50°	711.6	757.0	833.5	892.5	919.3
52.5°	665.9	713.0	793.2	856.3	883.1
55°	616.5	670.0	751.8	817.5	845.5
57.5°	566.9	624.5	708.8	777.2	805.4
60°	518.6	577.5	665.9	734.4	763.8
62.5°	470.4	529.2	621.7	691.4	719.6
65°	419.4	481.0	573.5	644.5	672.7
67.5°	368.5	432.8	525.2	596.3	623.1
70°	314.9	383.3	475.8	545.4	572.3
72.5°	265.4	333.7	424.7	493.2	518.6
75°	215.8	284.0	372.5	435.5	453.0
77.5°	167.5	235.8	314.9	356.5	360.5
80°	121.9	186.3	250.6	262.6	261.2
82.5°	81.7	139.3	172.9	174.1	178.2
85°	46.8	87.1	95.1	93.9	95.1
87.5°	18.8	30.8	26.8	20.0	20.0
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)