

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: P843080

Luminaire Tested: **24CZ2-45-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843080
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: 24CZ2-45-SQR-UNV-B40
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

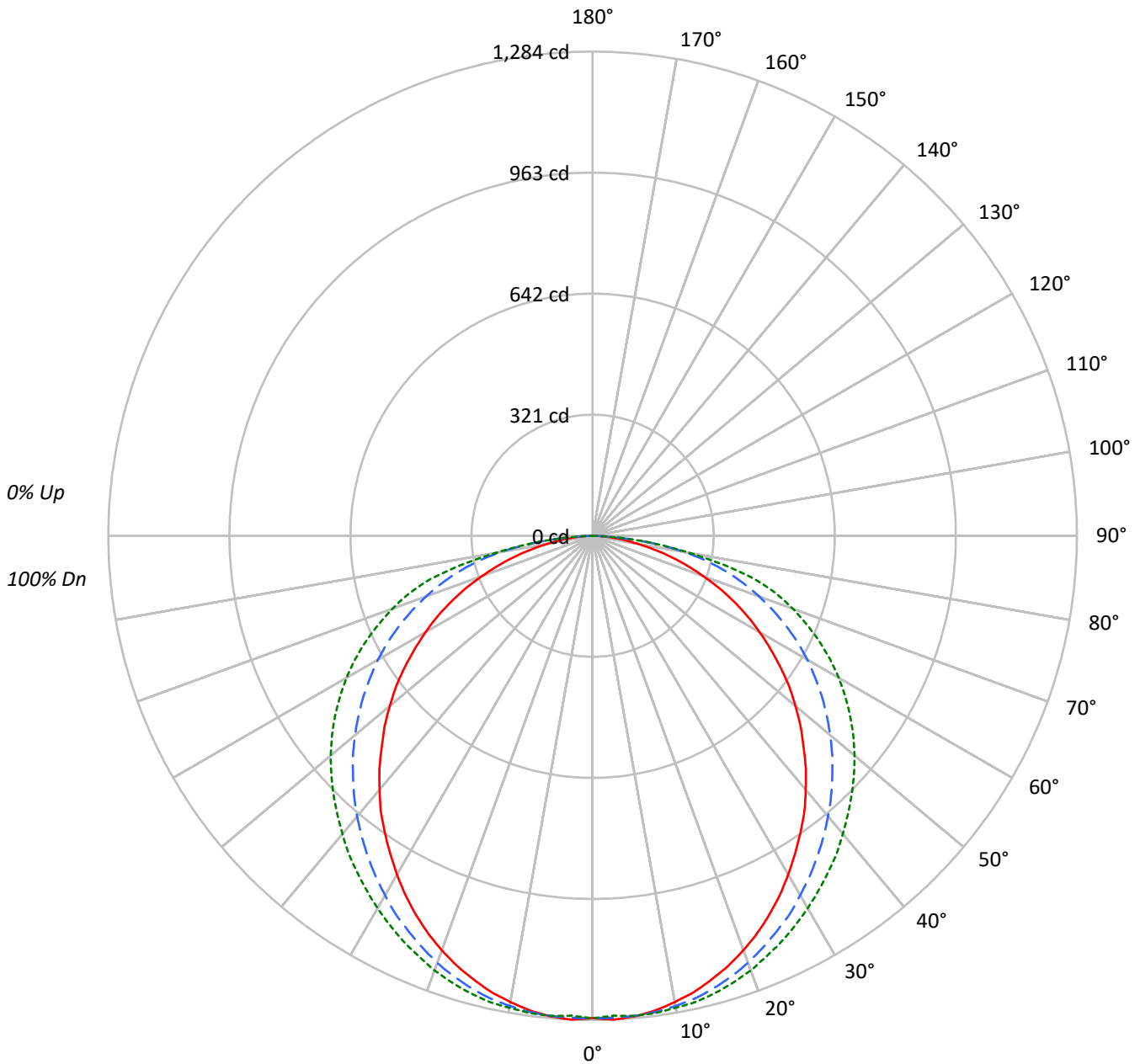
Lumens per Lamp: N/A
Luminaire Lumens: 4002.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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°	1805	1805	1805
5°	1812	1811	1811
10°	1799	1814	1822
15°	1780	1815	1834
20°	1757	1810	1842
25°	1727	1801	1848
30°	1690	1794	1859
35°	1655	1790	1876
40°	1619	1790	1902
45°	1577	1794	1939
50°	1541	1805	1991
55°	1496	1824	2052
60°	1444	1854	2126
65°	1381	1889	2216
70°	1281	1936	2329
75°	1160	2003	2436
80°	977	2008	2094
85°	748	1519	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	3.0
10°-20°	349.4	8.7
20°-30°	530.7	13.3
30°-40°	645.5	16.1
40°-50°	687.2	17.2
50°-60°	654.6	16.4
60°-70°	547.4	13.7
70°-80°	365.0	9.1
80°-90°	101.0	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°	1001.5	25.0
0°-40°	1646.9	41.2
0°-60°	2988.7	74.7
0°-90°	4002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1279	1271	1278	1278	1278	121
15°	1218	1221	1242	1252	1256	344
25°	1109	1123	1156	1176	1187	511
35°	961	989	1039	1073	1089	601
45°	790	833	899	949	971	611
55°	608	661	741	806	834	543
65°	414	474	566	636	664	409
75°	213	280	367	430	447	225
85°	46	86	94	93	94	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1279.2	1279.2	1279.2	1279.2	1279.2
2.5°	1284.5	1275.2	1279.2	1279.2	1274.0
5°	1279.2	1271.3	1278.0	1278.0	1278.0
7.5°	1270.1	1263.4	1274.0	1276.6	1276.6
10°	1255.5	1252.9	1266.1	1270.1	1271.3
12.5°	1239.7	1238.3	1256.8	1262.0	1266.1
15°	1218.4	1221.1	1242.2	1251.5	1255.5
17.5°	1196.0	1201.2	1225.1	1238.3	1242.2
20°	1169.6	1177.5	1205.3	1218.4	1226.4
22.5°	1140.6	1152.4	1181.4	1197.2	1206.5
25°	1108.8	1123.2	1156.4	1176.1	1186.8
27.5°	1074.4	1093.0	1131.3	1153.6	1164.3
30°	1037.3	1058.5	1100.9	1127.3	1140.6
32.5°	999.0	1024.1	1070.5	1099.5	1115.3
35°	960.7	988.6	1038.7	1073.1	1088.9
37.5°	922.4	950.1	1005.7	1042.7	1062.6
40°	878.8	911.8	971.4	1012.3	1032.2
42.5°	836.6	872.1	935.7	980.5	1001.8
45°	790.2	832.6	898.6	948.9	971.4
47.5°	748.0	790.2	861.6	914.5	939.6
50°	701.8	746.6	822.0	880.2	906.6
52.5°	656.8	703.1	782.3	844.5	870.9
55°	608.0	660.7	741.4	806.2	833.8
57.5°	559.0	615.9	699.0	766.5	794.3
60°	511.5	569.5	656.8	724.3	753.3
62.5°	463.9	521.9	613.1	681.8	709.7
65°	413.6	474.4	565.6	635.6	663.5
67.5°	363.4	426.8	518.0	588.1	614.5
70°	310.5	378.0	469.2	537.9	564.4
72.5°	261.7	329.1	418.9	486.4	511.5
75°	212.8	280.1	367.4	429.5	446.7
77.5°	165.2	232.5	310.5	351.6	355.5
80°	120.2	183.8	247.1	259.0	257.6
82.5°	80.5	137.4	170.5	171.7	175.7
85°	46.2	85.9	93.8	92.6	93.8
87.5°	18.5	30.4	26.4	19.8	19.8
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)