

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: P274838

Luminaire Tested: **24CZ2-65-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P274838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65-RDP-UNV-L950-CD1-U
Description: 2'x4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (112) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

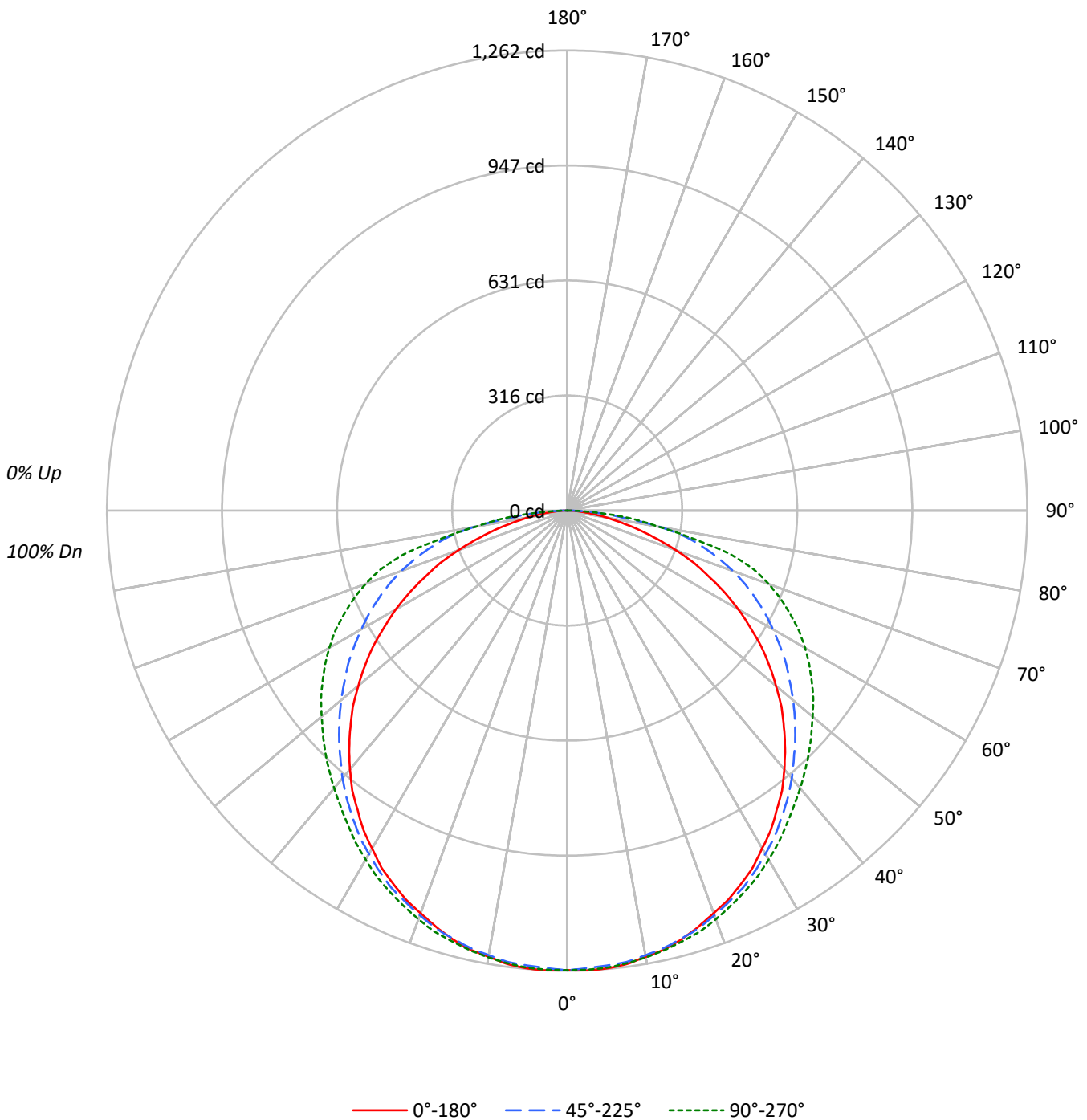
Lumens per Lamp: N/A
Luminaire Lumens: 4008.0 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 62.8
Input Voltage (V): NR
Input Current (Ain): 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	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	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1696	1696	1696
5°	1702	1692	1700
10°	1698	1692	1700
15°	1695	1692	1703
20°	1682	1691	1708
25°	1676	1694	1712
30°	1662	1689	1717
35°	1646	1685	1724
40°	1627	1683	1746
45°	1600	1683	1785
50°	1565	1694	1839
55°	1525	1721	1921
60°	1460	1755	2028
65°	1367	1817	2152
70°	1244	1900	2315
75°	1054	2005	2418
80°	832	2018	1956
85°	614	1535	1718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	3.0
10°-20°	344.1	8.6
20°-30°	526.2	13.1
30°-40°	643.3	16.0
40°-50°	685.6	17.1
50°-60°	655.5	16.4
60°-70°	555.3	13.9
70°-80°	373.2	9.3
80°-90°	105.3	2.6
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°	989.8	24.7
0°-40°	1633.1	40.7
0°-60°	2974.2	74.2
0°-90°	4008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1260	1258	1252	1258	1258	120
15°	1217	1217	1215	1225	1223	343
25°	1129	1133	1141	1151	1153	520
35°	1002	1010	1026	1046	1050	628
45°	841	855	885	922	938	649
55°	650	674	734	791	819	579
65°	429	473	571	646	676	426
75°	203	276	386	451	465	217
85°	40	82	99	107	111	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.4	1260.4	1260.4	1260.4	1260.4
2.5°	1262.4	1262.4	1256.4	1260.4	1260.4
5°	1260.4	1258.4	1252.4	1258.4	1258.4
7.5°	1254.4	1252.4	1248.5	1254.4	1252.4
10°	1242.5	1242.5	1238.5	1244.5	1244.5
12.5°	1232.6	1230.6	1228.6	1236.5	1234.6
15°	1216.7	1216.7	1214.7	1224.6	1222.6
17.5°	1196.8	1198.8	1200.8	1208.7	1210.7
20°	1174.9	1178.9	1180.9	1192.8	1192.8
22.5°	1155.0	1157.0	1161.0	1172.9	1172.9
25°	1129.2	1133.2	1141.1	1151.1	1153.0
27.5°	1103.3	1105.3	1115.3	1129.2	1131.2
30°	1069.6	1075.5	1087.4	1103.3	1105.3
32.5°	1039.7	1045.7	1059.6	1075.5	1079.5
35°	1002.0	1009.9	1025.8	1045.7	1049.7
37.5°	968.2	974.1	994.0	1015.9	1021.8
40°	926.4	938.3	958.2	984.1	994.0
42.5°	884.7	896.6	920.5	954.2	966.2
45°	840.9	854.8	884.7	922.4	938.3
47.5°	797.2	813.1	846.9	890.6	908.5
50°	747.5	767.4	809.1	858.8	878.7
52.5°	699.8	723.6	769.4	825.0	850.9
55°	650.1	673.9	733.6	791.2	819.1
57.5°	594.4	626.2	691.8	757.4	787.3
60°	542.7	572.5	652.1	723.6	753.5
62.5°	487.1	526.8	612.3	687.9	717.7
65°	429.4	473.1	570.6	646.1	675.9
67.5°	377.7	425.4	528.8	604.4	634.2
70°	316.1	375.7	483.1	558.6	588.5
72.5°	258.4	324.0	435.4	508.9	536.8
75°	202.8	276.3	385.7	451.3	465.2
77.5°	151.1	228.6	334.0	361.8	351.9
80°	107.4	182.9	260.4	246.5	252.5
82.5°	69.6	139.2	161.0	182.9	188.9
85°	39.8	81.5	99.4	107.4	111.3
87.5°	17.9	29.8	39.8	39.8	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)