

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: P274822

Luminaire Tested: **24CZ2-55-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: P274822
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: 24CZ2-55-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: 3398.0 lumens
Efficiency: N/A
Efficacy: 67.3 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

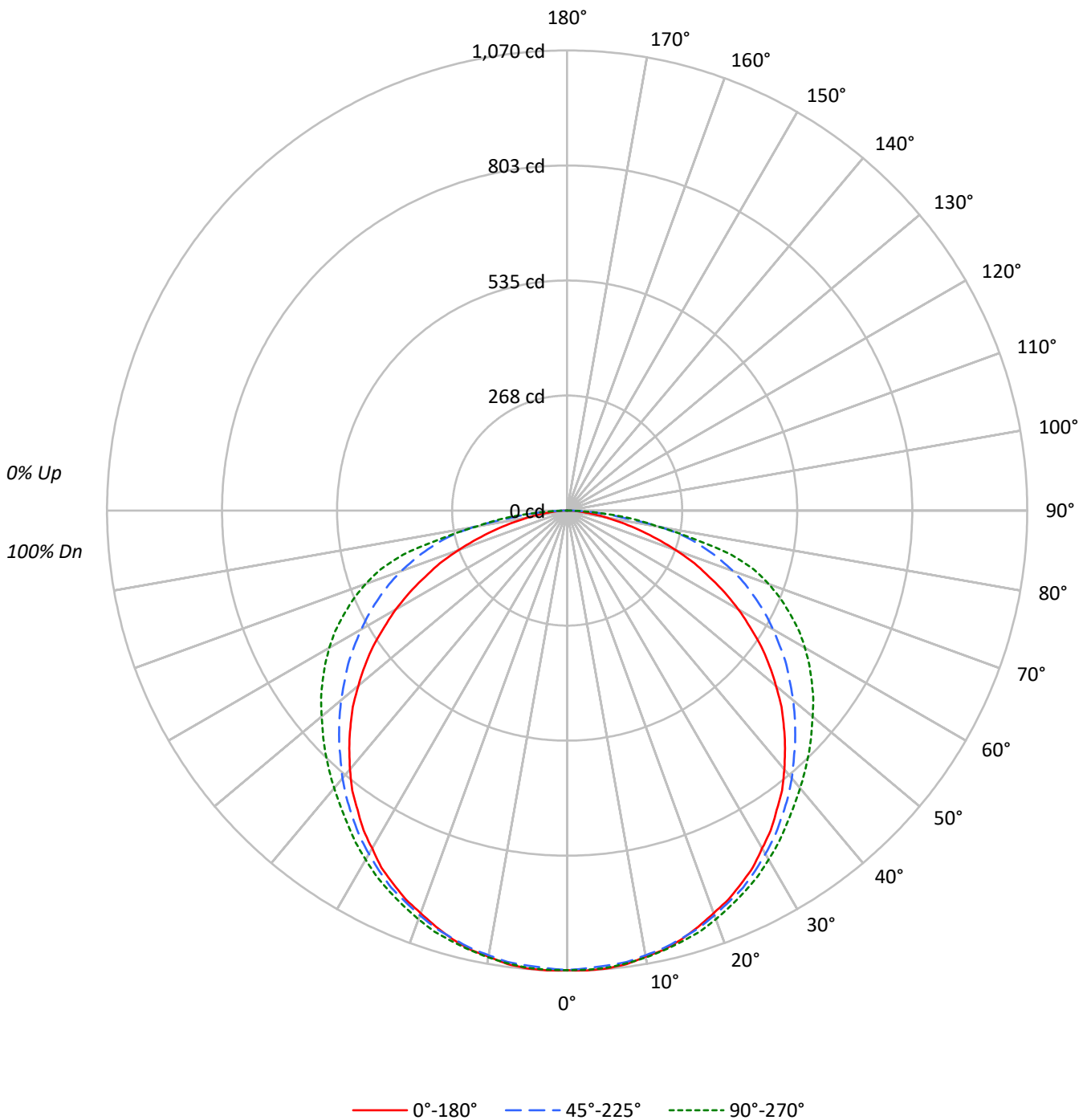
Input Watts (W): 50.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1438	1438	1438
5°	1443	1434	1441
10°	1439	1435	1442
15°	1437	1434	1444
20°	1426	1434	1448
25°	1421	1436	1451
30°	1409	1432	1456
35°	1395	1429	1462
40°	1379	1427	1480
45°	1357	1427	1514
50°	1326	1436	1559
55°	1293	1459	1629
60°	1238	1488	1719
65°	1159	1540	1825
70°	1054	1611	1963
75°	894	1700	2050
80°	705	1711	1659
85°	520	1301	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.0
10°-20°	291.7	8.6
20°-30°	446.1	13.1
30°-40°	545.4	16.0
40°-50°	581.2	17.1
50°-60°	555.7	16.4
60°-70°	470.8	13.9
70°-80°	316.4	9.3
80°-90°	89.3	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°	839.2	24.7
0°-40°	1384.5	40.7
0°-60°	2521.5	74.2
0°-90°	3398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1069	1067	1062	1067	1067	102
15°	1032	1032	1030	1038	1037	291
25°	957	961	967	976	978	441
35°	850	856	870	886	890	532
45°	713	725	750	782	796	550
55°	551	571	622	671	694	491
65°	364	401	484	548	573	361
75°	172	234	327	383	394	184
85°	34	69	84	91	94	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1070.3	1070.3	1065.2	1068.6	1068.6
5°	1068.6	1066.9	1061.8	1066.9	1066.9
7.5°	1063.5	1061.8	1058.5	1063.5	1061.8
10°	1053.4	1053.4	1050.0	1055.1	1055.1
12.5°	1045.0	1043.3	1041.6	1048.3	1046.7
15°	1031.5	1031.5	1029.8	1038.2	1036.6
17.5°	1014.6	1016.3	1018.0	1024.8	1026.4
20°	996.1	999.5	1001.2	1011.3	1011.3
22.5°	979.2	980.9	984.3	994.4	994.4
25°	957.3	960.7	967.4	975.9	977.6
27.5°	935.4	937.1	945.5	957.3	959.0
30°	906.8	911.8	921.9	935.4	937.1
32.5°	881.5	886.5	898.3	911.8	915.2
35°	849.5	856.2	869.7	886.5	889.9
37.5°	820.8	825.9	842.7	861.3	866.3
40°	785.4	795.5	812.4	834.3	842.7
42.5°	750.0	760.1	780.4	809.0	819.1
45°	712.9	724.7	750.0	782.0	795.5
47.5°	675.9	689.3	718.0	755.1	770.2
50°	633.7	650.6	686.0	728.1	745.0
52.5°	593.3	613.5	652.3	699.5	721.4
55°	551.1	571.4	621.9	670.8	694.4
57.5°	503.9	530.9	586.5	642.2	667.4
60°	460.1	485.4	552.8	613.5	638.8
62.5°	412.9	446.6	519.1	583.2	608.4
65°	364.1	401.1	483.7	547.8	573.1
67.5°	320.2	360.7	448.3	512.4	537.7
70°	268.0	318.5	409.6	473.6	498.9
72.5°	219.1	274.7	369.1	431.5	455.1
75°	171.9	234.3	327.0	382.6	394.4
77.5°	128.1	193.8	283.2	306.8	298.3
80°	91.0	155.1	220.8	209.0	214.1
82.5°	59.0	118.0	136.5	155.1	160.1
85°	33.7	69.1	84.3	91.0	94.4
87.5°	15.2	25.3	33.7	33.7	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)