

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: P272060

Luminaire Tested: **24CZ2-30-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: P272060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-UNV-L950-CD1-U
Description: 2'x4' TROFFER LED MODULE,RIBBED LENS, 90CRI
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

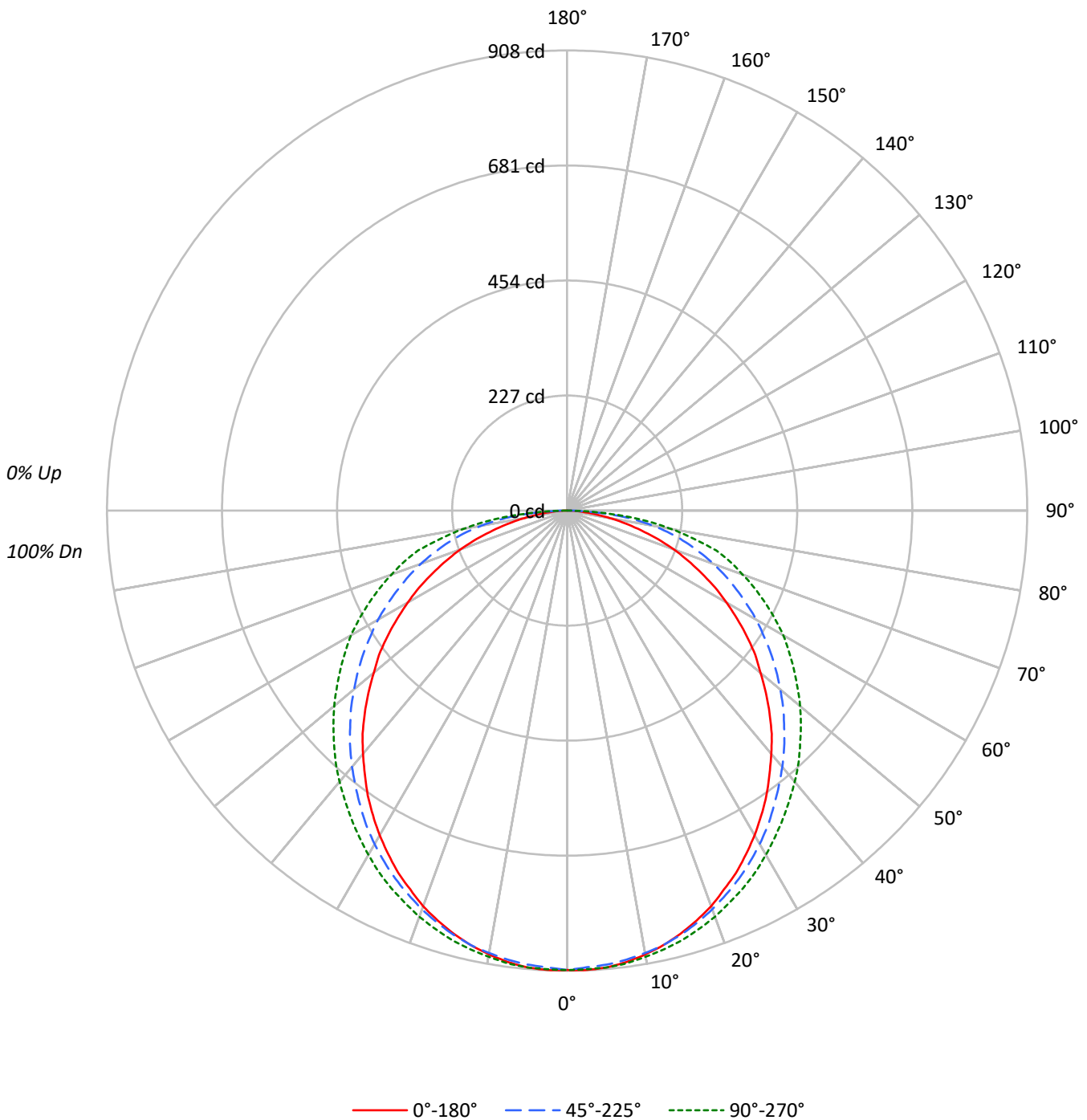
Lumens per Lamp: N/A
Luminaire Lumens: 2749.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.2
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	92	89	92	89	87	88	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	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36
7	64	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1220	1220	1220
5°	1222	1215	1222
10°	1215	1211	1221
15°	1204	1207	1222
20°	1190	1199	1221
25°	1171	1190	1220
30°	1149	1180	1219
35°	1127	1169	1219
40°	1101	1160	1227
45°	1074	1152	1237
50°	1042	1149	1256
55°	1016	1151	1282
60°	977	1161	1325
65°	932	1173	1373
70°	883	1209	1450
75°	787	1261	1583
80°	671	1336	1619
85°	479	1323	1548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.1
10°-20°	245.3	8.9
20°-30°	370.5	13.5
30°-40°	446.6	16.2
40°-50°	468.8	17.1
50°-60°	438.6	16.0
60°-70°	362.2	13.2
70°-80°	246.8	9.0
80°-90°	84.2	3.1
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°	701.7	25.5
0°-40°	1148.3	41.8
0°-60°	2055.7	74.8
0°-90°	2749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	905	904	899	905	905	86
15°	865	866	866	876	877	244
25°	789	793	802	817	822	363
35°	686	693	711	735	742	429
45°	565	576	606	638	650	435
55°	433	451	491	531	546	387
65°	293	317	368	415	431	290
75°	151	186	243	288	305	161
85°	31	61	86	97	100	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.6	906.6	906.6	906.6	906.6
2.5°	907.5	906.6	902.0	906.6	905.7
5°	904.8	903.9	899.3	904.8	904.8
7.5°	898.4	898.4	893.8	900.2	901.1
10°	889.3	889.3	886.5	893.8	893.8
12.5°	878.3	878.3	878.3	885.6	886.5
15°	864.6	865.6	866.5	875.6	877.4
17.5°	848.2	850.0	852.8	863.7	865.6
20°	830.9	832.7	837.3	850.0	852.8
22.5°	809.0	813.6	819.9	834.5	837.3
25°	788.9	792.6	801.7	817.2	821.8
27.5°	764.3	769.8	781.6	798.1	804.4
30°	739.7	745.2	759.8	778.9	784.4
32.5°	713.2	721.4	737.0	757.0	763.4
35°	685.9	693.2	711.4	735.1	742.4
37.5°	655.8	665.8	685.9	711.4	720.5
40°	626.6	637.5	660.3	687.7	698.6
42.5°	597.4	608.3	633.9	664.9	675.8
45°	564.6	576.4	605.6	638.4	650.3
47.5°	531.7	546.3	578.3	612.9	625.7
50°	498.0	514.4	549.1	585.5	600.1
52.5°	467.9	483.4	519.9	559.1	572.8
55°	433.2	450.6	490.7	530.8	546.3
57.5°	397.7	416.8	459.7	503.5	519.0
60°	363.0	384.0	431.4	475.2	492.5
62.5°	329.3	350.2	399.5	445.1	462.4
65°	292.8	317.4	368.5	415.0	431.4
67.5°	258.1	284.6	338.4	384.0	400.4
70°	224.4	249.9	307.4	352.1	368.5
72.5°	187.9	217.1	274.5	321.0	338.4
75°	151.4	186.1	242.6	288.2	304.6
77.5°	117.7	153.2	209.8	247.2	255.4
80°	86.6	123.1	172.4	198.8	208.9
82.5°	55.6	92.1	131.3	150.5	158.7
85°	31.0	61.1	85.7	96.7	100.3
87.5°	12.8	26.4	34.7	39.2	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)