

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: P272132

Luminaire Tested: **24CZ2-30-S-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: P272132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-S-UNV-L950-CD1-U
Description: 2'x4' TROFFER LED MODULE,SMOOTH LENS, 90CRI
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

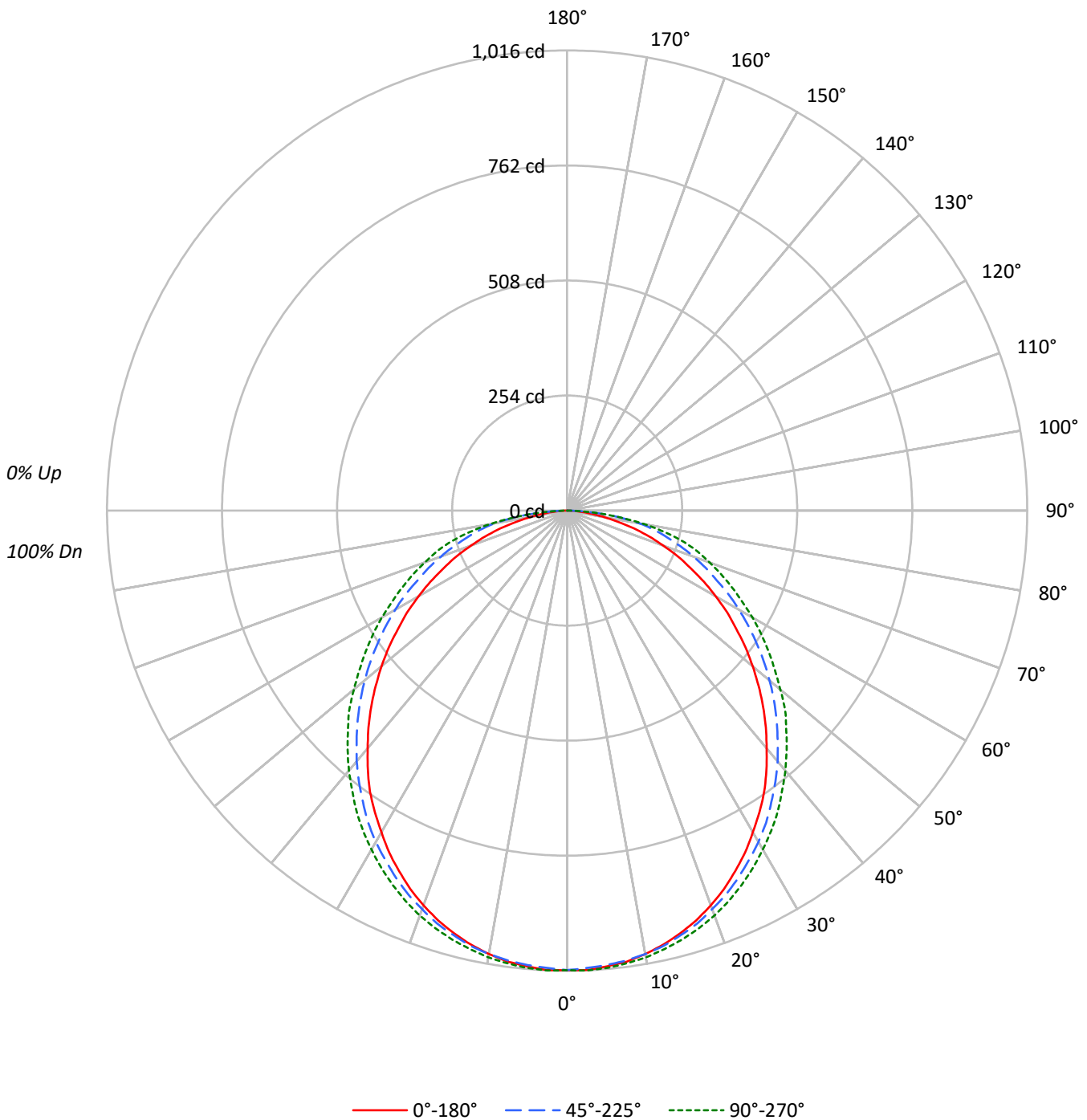
Lumens per Lamp: N/A
Luminaire Lumens: 2888.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P272132
CATALOG NUMBER: 24CZ2-30-S-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P272132

CATALOG NUMBER: 24CZ2-30-S-UNV-L950-CD1-U

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1365	1365	1365
5°	1364	1360	1369
10°	1359	1359	1369
15°	1346	1352	1366
20°	1328	1341	1362
25°	1303	1328	1354
30°	1274	1313	1342
35°	1246	1291	1332
40°	1203	1270	1316
45°	1164	1245	1302
50°	1119	1221	1286
55°	1069	1199	1274
60°	1020	1180	1271
65°	955	1160	1279
70°	884	1166	1314
75°	792	1187	1387
80°	640	1258	1358
85°	482	1105	1076



TEST NUMBER: P272132

CATALOG NUMBER: 24CZ2-30-S-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	3.3
10°-20°	274.4	9.5
20°-30°	412.6	14.3
30°-40°	491.4	17.0
40°-50°	502.9	17.4
50°-60°	452.8	15.7
60°-70°	355.6	12.3
70°-80°	230.8	8.0
80°-90°	71.4	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°	783.1	27.1
0°-40°	1274.5	44.1
0°-60°	2230.2	77.2
0°-90°	2888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1010	1012	1007	1013	1014	96
15°	966	969	970	979	981	272
25°	878	885	894	909	912	404
35°	759	768	786	805	811	473
45°	612	626	654	679	684	472
55°	456	476	511	538	543	409
65°	300	323	364	394	402	299
75°	152	182	228	260	267	161
85°	31	58	72	70	70	38
90°	0	0	0	0	0	



TEST NUMBER: P272132

CATALOG NUMBER: 24CZ2-30-S-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1014.6	1014.6	1014.6	1014.6	1014.6
2.5°	1015.5	1015.5	1010.9	1015.5	1016.4
5°	1010.0	1011.8	1007.2	1012.7	1013.7
7.5°	1004.5	1004.5	1001.7	1007.2	1008.2
10°	994.4	995.3	994.4	1000.8	1001.7
12.5°	981.5	983.4	984.3	990.7	991.6
15°	966.0	968.7	970.5	978.8	980.6
17.5°	948.5	951.3	955.9	965.0	966.9
20°	927.4	931.1	936.6	948.5	951.3
22.5°	904.5	908.2	917.3	928.3	932.9
25°	877.9	885.2	894.4	909.1	911.8
27.5°	851.3	857.7	869.6	885.2	888.9
30°	820.1	830.2	844.9	860.5	864.1
32.5°	789.8	799.9	817.3	833.9	838.4
35°	758.6	767.8	786.2	805.4	810.9
37.5°	722.9	734.8	755.0	774.2	779.7
40°	685.2	699.9	722.9	743.0	749.5
42.5°	649.5	665.1	688.0	710.0	717.4
45°	611.9	626.5	654.1	678.8	684.3
47.5°	573.3	589.8	619.2	644.0	653.1
50°	534.8	552.2	583.4	609.1	614.6
52.5°	496.3	514.6	547.6	575.2	577.9
55°	455.9	476.1	511.0	537.6	543.1
57.5°	419.2	436.7	474.3	501.8	508.2
60°	378.9	398.1	438.5	464.2	472.4
62.5°	340.3	360.5	402.7	428.4	435.7
65°	300.0	322.9	364.2	394.5	401.8
67.5°	265.1	287.1	331.2	360.5	367.9
70°	224.7	249.5	296.3	326.6	333.9
72.5°	189.9	215.6	262.4	291.7	302.7
75°	152.3	181.6	228.4	259.6	266.9
77.5°	115.6	149.5	197.2	221.1	221.1
80°	82.6	118.3	162.4	173.4	175.2
82.5°	54.1	89.0	120.2	119.3	119.3
85°	31.2	57.8	71.6	69.7	69.7
87.5°	11.9	23.9	25.7	25.7	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)