

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: P272065

Luminaire Tested: **24CZ2-35-UNV-L930-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: P272065
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: 24CZ2-35-UNV-L930-CD1-U
Description: 2'x4' TROFFER LED MODULE,RIBBED LENS, 90CRI
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

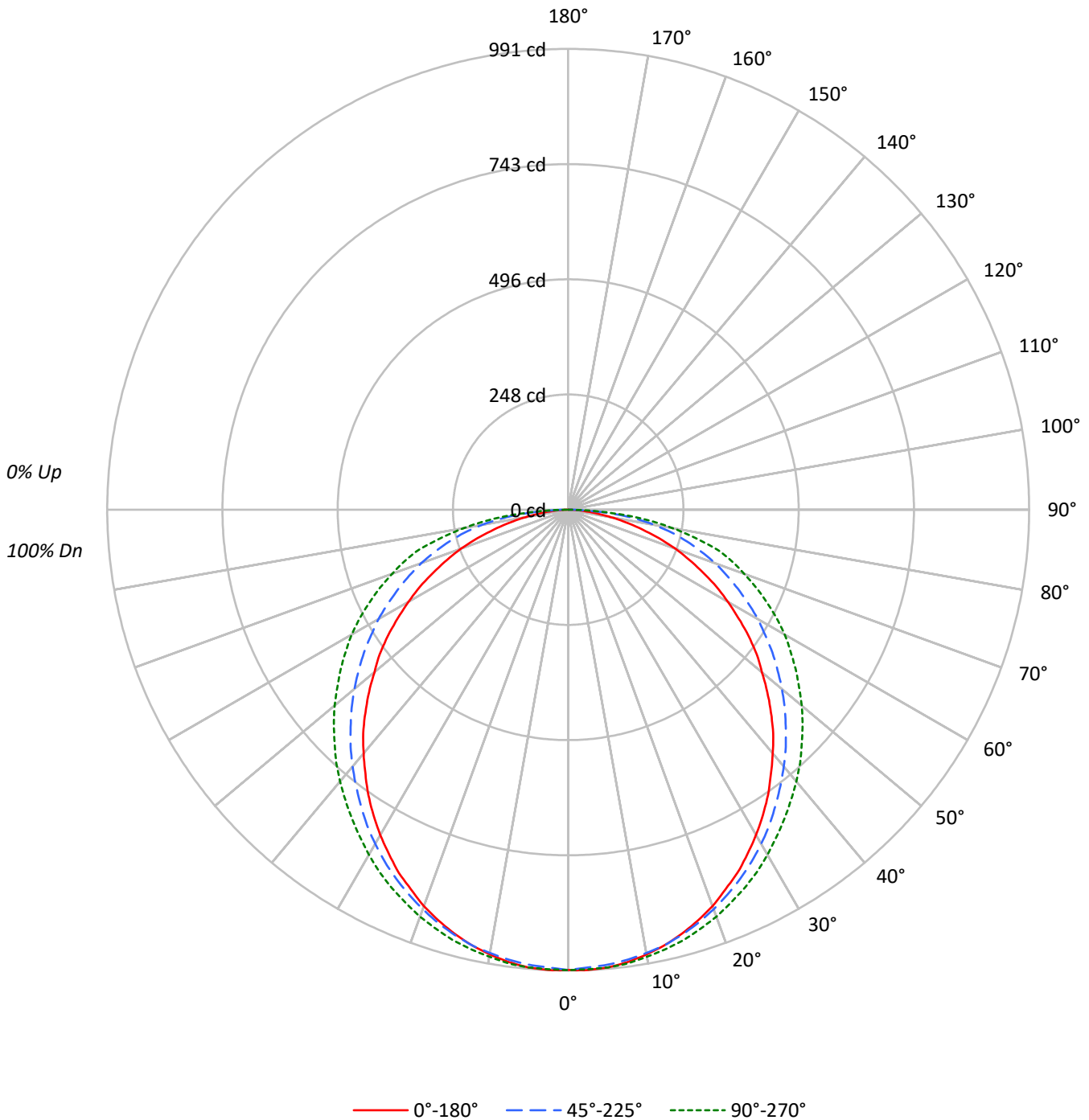
Lumens per Lamp: N/A
Luminaire Lumens: 3002.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.1
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°	1332	1332	1332
5°	1334	1326	1334
10°	1327	1323	1334
15°	1315	1318	1335
20°	1299	1309	1333
25°	1279	1300	1332
30°	1255	1289	1331
35°	1230	1276	1332
40°	1202	1267	1340
45°	1173	1259	1351
50°	1138	1255	1372
55°	1110	1257	1399
60°	1067	1268	1447
65°	1018	1281	1500
70°	964	1321	1583
75°	859	1377	1730
80°	733	1458	1767
85°	523	1445	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.1
10°-20°	267.9	8.9
20°-30°	404.6	13.5
30°-40°	487.7	16.2
40°-50°	512.0	17.1
50°-60°	479.0	16.0
60°-70°	395.6	13.2
70°-80°	269.5	9.0
80°-90°	91.9	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°	766.3	25.5
0°-40°	1254.0	41.8
0°-60°	2245.0	74.8
0°-90°	3002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	988	987	982	988	988	94
15°	944	945	946	956	958	266
25°	862	866	876	892	897	396
35°	749	757	777	803	811	468
45°	616	630	661	697	710	475
55°	473	492	536	580	597	422
65°	320	347	402	453	471	317
75°	165	203	265	315	333	176
85°	34	67	94	106	110	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990.0	990.0	990.0	990.0	990.0
2.5°	991.0	990.0	985.1	990.0	989.0
5°	988.0	987.0	982.1	988.0	988.0
7.5°	981.1	981.1	976.1	983.1	984.1
10°	971.1	971.1	968.1	976.1	976.1
12.5°	959.2	959.2	959.2	967.1	968.1
15°	944.2	945.2	946.2	956.2	958.2
17.5°	926.3	928.3	931.3	943.2	945.2
20°	907.4	909.4	914.3	928.3	931.3
22.5°	883.5	888.4	895.4	911.3	914.3
25°	861.5	865.5	875.5	892.4	897.4
27.5°	834.7	840.6	853.6	871.5	878.5
30°	807.8	813.7	829.7	850.6	856.6
32.5°	778.9	787.8	804.8	826.7	833.7
35°	749.0	757.0	776.9	802.8	810.8
37.5°	716.1	727.1	749.0	776.9	786.8
40°	684.3	696.2	721.1	751.0	762.9
42.5°	652.4	664.3	692.2	726.1	738.0
45°	616.5	629.5	661.4	697.2	710.2
47.5°	580.7	596.6	631.5	669.3	683.3
50°	543.8	561.7	599.6	639.4	655.4
52.5°	511.0	527.9	567.7	610.6	625.5
55°	473.1	492.0	535.9	579.7	596.6
57.5°	434.3	455.2	502.0	549.8	566.7
60°	396.4	419.3	471.1	518.9	537.8
62.5°	359.6	382.5	436.3	486.1	505.0
65°	319.7	346.6	402.4	453.2	471.1
67.5°	281.9	310.8	369.5	419.3	437.2
70°	245.0	272.9	335.7	384.5	402.4
72.5°	205.2	237.1	299.8	350.6	369.5
75°	165.3	203.2	264.9	314.7	332.7
77.5°	128.5	167.3	229.1	269.9	278.9
80°	94.6	134.5	188.2	217.1	228.1
82.5°	60.8	100.6	143.4	164.3	173.3
85°	33.9	66.7	93.6	105.6	109.6
87.5°	13.9	28.9	37.8	42.8	42.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)