

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: P272066

Luminaire Tested: **24CZ2-35-UNV-L935-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: P272066
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-L935-CD1-U
Description: 2'x4' TROFFER LED MODULE,RIBBED LENS, 90CRI
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3076.0 lumens
Efficiency: N/A
Efficacy: 102.2 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

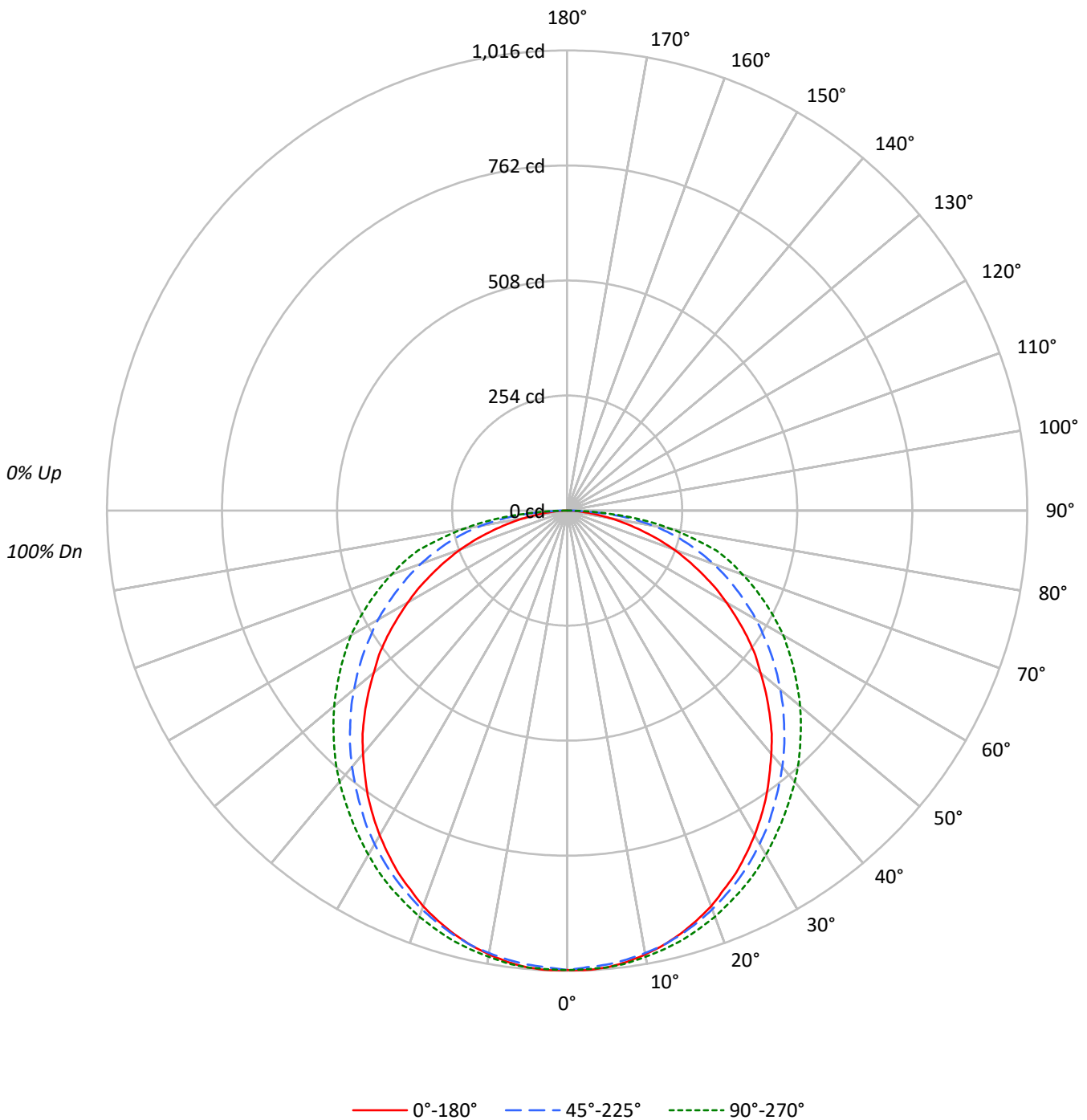
Input Watts (W): 30.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1365	1365	1365
5°	1367	1359	1367
10°	1359	1355	1367
15°	1348	1350	1368
20°	1331	1341	1366
25°	1311	1332	1365
30°	1286	1321	1364
35°	1261	1307	1364
40°	1231	1298	1373
45°	1202	1290	1385
50°	1166	1286	1406
55°	1137	1288	1434
60°	1093	1299	1483
65°	1043	1313	1537
70°	988	1353	1622
75°	881	1411	1772
80°	752	1495	1811
85°	536	1480	1734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	3.1
10°-20°	274.5	8.9
20°-30°	414.6	13.5
30°-40°	499.7	16.2
40°-50°	524.6	17.1
50°-60°	490.8	16.0
60°-70°	405.3	13.2
70°-80°	276.2	9.0
80°-90°	94.2	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°	785.1	25.5
0°-40°	1284.9	41.8
0°-60°	2300.3	74.8
0°-90°	3076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1014	1014	1014	1014	1014	
5°	1012	1011	1006	1012	1012	96
15°	968	968	970	980	982	273
25°	883	887	897	914	920	406
35°	768	776	796	823	831	480
45°	632	645	678	714	728	487
55°	485	504	549	594	611	433
65°	328	355	412	464	483	325
75°	169	208	272	322	341	181
85°	35	68	96	108	112	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1014.4	1014.4	1014.4	1014.4	1014.4
2.5°	1015.5	1014.4	1009.3	1014.4	1013.4
5°	1012.4	1011.4	1006.3	1012.4	1012.4
7.5°	1005.3	1005.3	1000.2	1007.3	1008.3
10°	995.0	995.0	992.0	1000.2	1000.2
12.5°	982.8	982.8	982.8	991.0	992.0
15°	967.5	968.5	969.5	979.7	981.8
17.5°	949.1	951.2	954.2	966.5	968.5
20°	929.7	931.8	936.9	951.2	954.2
22.5°	905.2	910.3	917.5	933.8	936.9
25°	882.8	886.9	897.1	914.4	919.5
27.5°	855.2	861.4	874.6	893.0	900.1
30°	827.7	833.8	850.1	871.6	877.7
32.5°	798.1	807.3	824.6	847.1	854.2
35°	767.5	775.6	796.0	822.6	830.7
37.5°	733.8	745.0	767.5	796.0	806.2
40°	701.1	713.4	738.9	769.5	781.8
42.5°	668.5	680.7	709.3	744.0	756.2
45°	631.7	645.0	677.7	714.4	727.7
47.5°	595.0	611.3	647.0	685.8	700.1
50°	557.2	575.6	614.4	655.2	671.5
52.5°	523.5	540.9	581.7	625.6	640.9
55°	484.8	504.2	549.1	594.0	611.3
57.5°	445.0	466.4	514.4	563.3	580.7
60°	406.2	429.7	482.7	531.7	551.1
62.5°	368.4	391.9	447.0	498.0	517.4
65°	327.6	355.2	412.3	464.4	482.7
67.5°	288.8	318.4	378.6	429.7	448.0
70°	251.1	279.6	343.9	393.9	412.3
72.5°	210.2	242.9	307.2	359.2	378.6
75°	169.4	208.2	271.5	322.5	340.9
77.5°	131.7	171.5	234.7	276.6	285.8
80°	97.0	137.8	192.9	222.5	233.7
82.5°	62.3	103.1	147.0	168.4	177.6
85°	34.7	68.4	95.9	108.2	112.3
87.5°	14.3	29.6	38.8	43.9	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)