

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: P274820

Luminaire Tested: **24CZ2-55-RDP-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: P274820
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-L935-CD1-U
Description: 2'x4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3168.0 lumens
Efficiency: N/A
Efficacy: 62.7 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

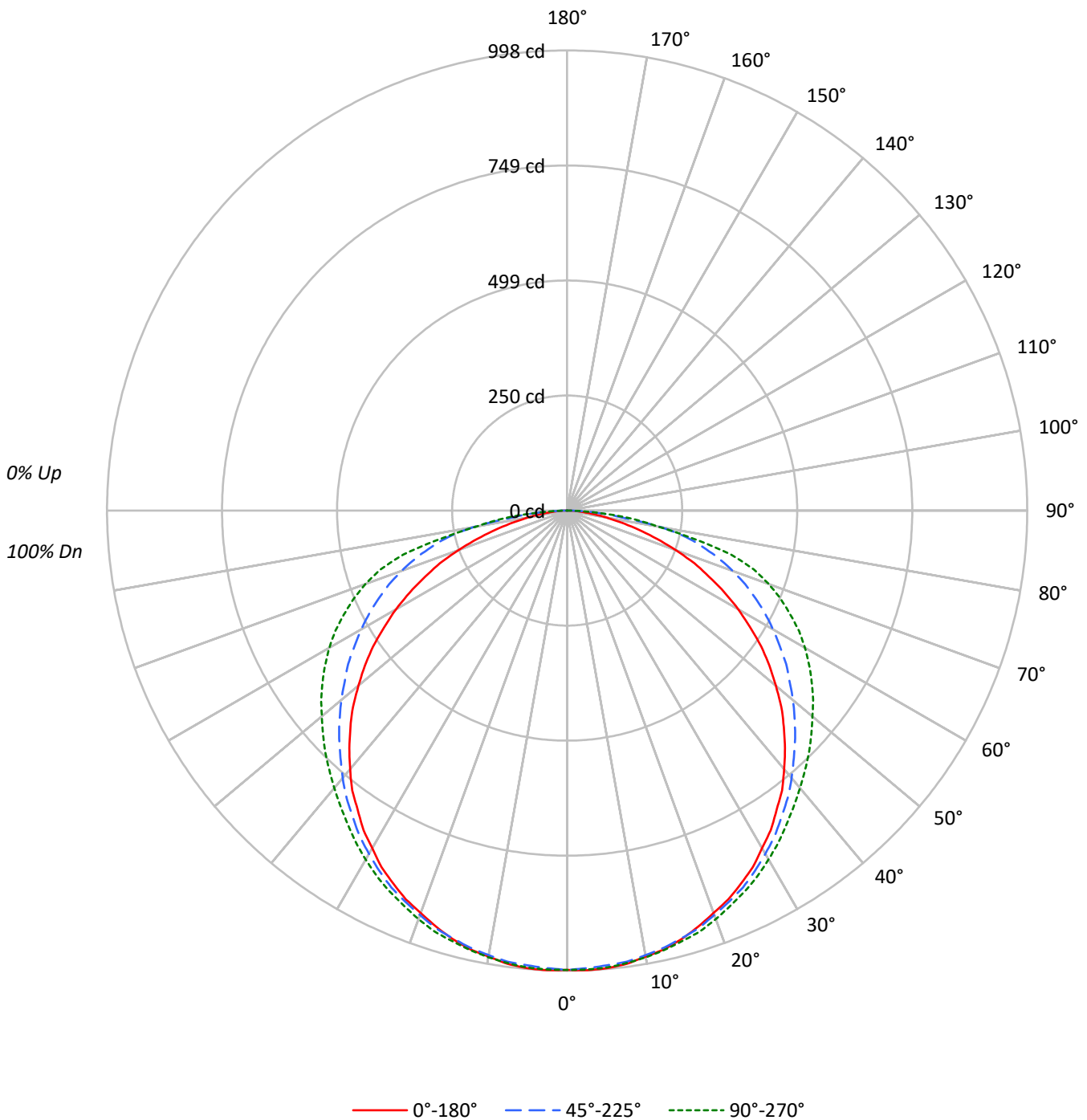
Input Watts (W): 50.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274820

CATALOG NUMBER: 24CZ2-55-RDP-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P274820

CATALOG NUMBER: 24CZ2-55-RDP-UNV-L935-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	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°	1340	1340	1340
5°	1345	1337	1343
10°	1342	1338	1344
15°	1340	1337	1346
20°	1330	1336	1350
25°	1325	1339	1353
30°	1313	1335	1357
35°	1301	1332	1363
40°	1286	1330	1380
45°	1265	1331	1411
50°	1237	1339	1454
55°	1205	1360	1519
60°	1154	1387	1602
65°	1081	1436	1701
70°	983	1502	1830
75°	833	1585	1912
80°	658	1595	1547
85°	485	1213	1359



TEST NUMBER: P274820

CATALOG NUMBER: 24CZ2-55-RDP-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.0
10°-20°	272.0	8.6
20°-30°	415.9	13.1
30°-40°	508.5	16.0
40°-50°	541.9	17.1
50°-60°	518.1	16.4
60°-70°	438.9	13.9
70°-80°	295.0	9.3
80°-90°	83.2	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°	782.4	24.7
0°-40°	1290.8	40.7
0°-60°	2350.9	74.2
0°-90°	3168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	996	995	990	995	995	95
15°	962	962	960	968	966	271
25°	892	896	902	910	911	411
35°	792	798	811	826	830	496
45°	665	676	699	729	742	513
55°	514	533	580	625	647	458
65°	339	374	451	511	534	337
75°	160	218	305	357	368	172
85°	31	64	79	85	88	39
90°	0	0	0	0	0	



TEST NUMBER: P274820

CATALOG NUMBER: 24CZ2-55-RDP-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	996.2	996.2	996.2	996.2	996.2
2.5°	997.8	997.8	993.1	996.2	996.2
5°	996.2	994.7	990.0	994.7	994.7
7.5°	991.5	990.0	986.8	991.5	990.0
10°	982.1	982.1	979.0	983.7	983.7
12.5°	974.2	972.7	971.1	977.4	975.8
15°	961.7	961.7	960.1	968.0	966.4
17.5°	946.0	947.5	949.1	955.4	957.0
20°	928.7	931.8	933.4	942.8	942.8
22.5°	913.0	914.5	917.7	927.1	927.1
25°	892.5	895.7	902.0	909.8	911.4
27.5°	872.1	873.7	881.5	892.5	894.1
30°	845.4	850.1	859.5	872.1	873.7
32.5°	821.8	826.5	837.5	850.1	853.3
35°	792.0	798.3	810.8	826.5	829.7
37.5°	765.3	770.0	785.7	803.0	807.7
40°	732.3	741.7	757.4	777.8	785.7
42.5°	699.3	708.7	727.5	754.3	763.7
45°	664.7	675.7	699.3	729.1	741.7
47.5°	630.1	642.7	669.4	704.0	718.1
50°	590.8	606.5	639.5	678.8	694.5
52.5°	553.1	572.0	608.1	652.1	672.5
55°	513.8	532.7	579.8	625.4	647.4
57.5°	469.8	495.0	546.8	598.7	622.3
60°	429.0	452.6	515.4	572.0	595.5
62.5°	385.0	416.4	484.0	543.7	567.3
65°	339.4	374.0	451.0	510.7	534.3
67.5°	298.6	336.3	418.0	477.7	501.3
70°	249.8	297.0	381.8	441.6	465.1
72.5°	204.3	256.1	344.1	402.3	424.3
75°	160.3	218.4	304.8	356.7	367.7
77.5°	119.4	180.7	264.0	286.0	278.1
80°	84.9	144.6	205.8	194.8	199.6
82.5°	55.0	110.0	127.3	144.6	149.3
85°	31.4	64.4	78.6	84.9	88.0
87.5°	14.1	23.6	31.4	31.4	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)