

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: P274816

Luminaire Tested: **24CZ2-55HE-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: P274816
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: 24CZ2-55HE-RDP-UNV-L935-CD1-U
Description: 2'x4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (224) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3164.0 lumens
Efficiency: N/A
Efficacy: 72.7 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

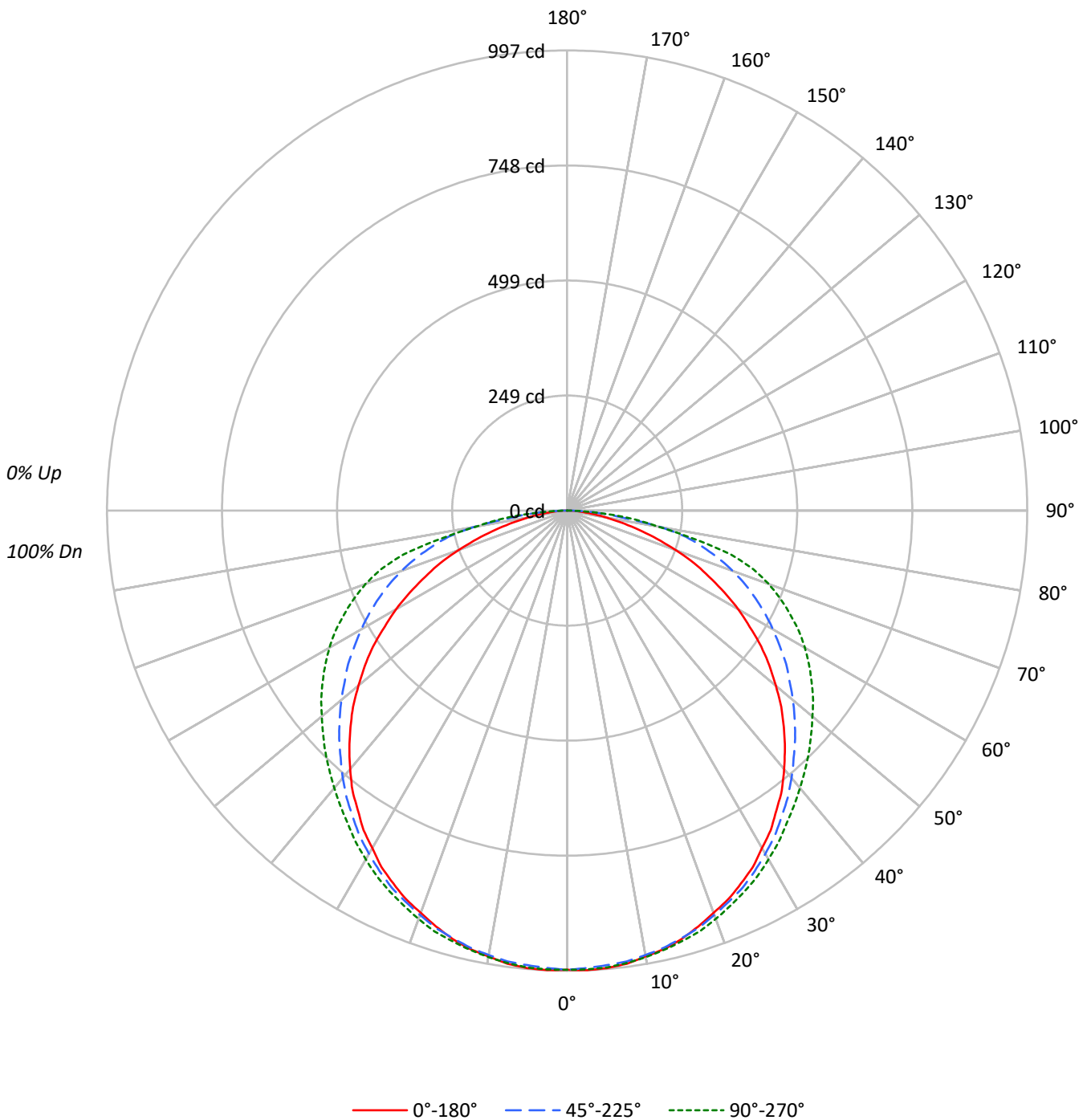
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1339	1339	1339
5°	1344	1335	1342
10°	1340	1336	1342
15°	1338	1336	1344
20°	1328	1335	1348
25°	1323	1337	1351
30°	1312	1334	1356
35°	1299	1330	1361
40°	1284	1329	1378
45°	1263	1329	1409
50°	1235	1337	1452
55°	1204	1358	1517
60°	1153	1385	1601
65°	1079	1434	1699
70°	982	1500	1827
75°	832	1583	1909
80°	656	1593	1544
85°	485	1212	1357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.0
10°-20°	271.6	8.6
20°-30°	415.4	13.1
30°-40°	507.8	16.0
40°-50°	541.2	17.1
50°-60°	517.5	16.4
60°-70°	438.4	13.9
70°-80°	294.6	9.3
80°-90°	83.1	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°	781.4	24.7
0°-40°	1289.2	40.7
0°-60°	2347.9	74.2
0°-90°	3164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	995	993	989	993	993	95
15°	960	960	959	967	965	271
25°	891	894	901	909	910	411
35°	791	797	810	826	829	496
45°	664	675	698	728	741	512
55°	513	532	579	625	647	457
65°	339	374	450	510	534	337
75°	160	218	304	356	367	171
85°	31	64	78	85	88	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.0	995.0	995.0	995.0	995.0
2.5°	996.6	996.6	991.8	995.0	995.0
5°	995.0	993.4	988.7	993.4	993.4
7.5°	990.3	988.7	985.6	990.3	988.7
10°	980.9	980.9	977.7	982.4	982.4
12.5°	973.0	971.4	969.9	976.2	974.6
15°	960.5	960.5	958.9	966.7	965.2
17.5°	944.8	946.3	947.9	954.2	955.8
20°	927.5	930.6	932.2	941.6	941.6
22.5°	911.8	913.4	916.5	925.9	925.9
25°	891.4	894.5	900.8	908.7	910.2
27.5°	871.0	872.6	880.4	891.4	893.0
30°	844.3	849.0	858.5	871.0	872.6
32.5°	820.8	825.5	836.5	849.0	852.2
35°	791.0	797.2	809.8	825.5	828.6
37.5°	764.3	769.0	784.7	802.0	806.7
40°	731.3	740.7	756.4	776.8	784.7
42.5°	698.4	707.8	726.6	753.3	762.7
45°	663.8	674.8	698.4	728.2	740.7
47.5°	629.3	641.9	668.6	703.1	717.2
50°	590.1	605.8	638.7	678.0	693.7
52.5°	552.4	571.3	607.4	651.3	671.7
55°	513.2	532.0	579.1	624.6	646.6
57.5°	469.2	494.4	546.1	597.9	621.5
60°	428.4	452.0	514.8	571.3	594.8
62.5°	384.5	415.9	483.4	543.0	566.5
65°	339.0	373.5	450.4	510.0	533.6
67.5°	298.2	335.8	417.5	477.1	500.6
70°	249.5	296.6	381.4	441.0	464.5
72.5°	204.0	255.8	343.7	401.8	423.7
75°	160.1	218.1	304.5	356.2	367.2
77.5°	119.3	180.5	263.7	285.6	277.8
80°	84.7	144.4	205.6	194.6	199.3
82.5°	54.9	109.9	127.1	144.4	149.1
85°	31.4	64.3	78.5	84.7	87.9
87.5°	14.1	23.5	31.4	31.4	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)