

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: P274818

Luminaire Tested: **24CZ2-55HE-RDP-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: P274818
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-L950-CD1-U
Description: 2'x4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (224) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3393.0 lumens
Efficiency: N/A
Efficacy: 78.0 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

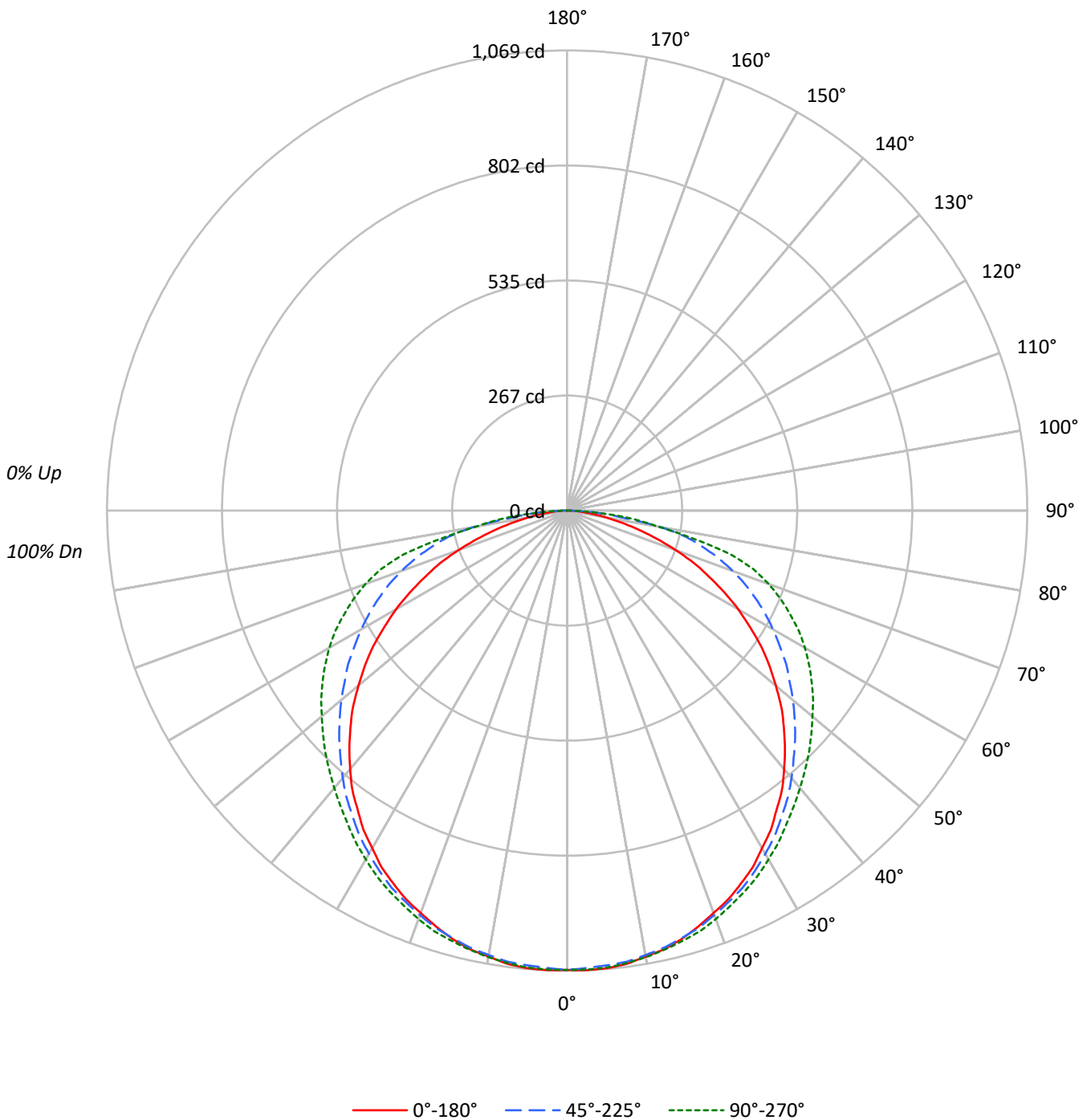
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1436	1436	1436
5°	1441	1432	1439
10°	1437	1433	1439
15°	1435	1432	1442
20°	1424	1431	1446
25°	1419	1434	1449
30°	1407	1430	1454
35°	1393	1426	1460
40°	1378	1425	1478
45°	1355	1425	1512
50°	1325	1434	1557
55°	1291	1457	1627
60°	1237	1485	1716
65°	1157	1538	1822
70°	1053	1609	1960
75°	893	1697	2047
80°	704	1709	1656
85°	520	1298	1454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	3.0
10°-20°	291.3	8.6
20°-30°	445.5	13.1
30°-40°	544.6	16.0
40°-50°	580.4	17.1
50°-60°	554.9	16.4
60°-70°	470.1	13.9
70°-80°	315.9	9.3
80°-90°	89.1	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°	838.0	24.7
0°-40°	1382.5	40.7
0°-60°	2517.8	74.2
0°-90°	3393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1067	1065	1060	1065	1065	101
15°	1030	1030	1028	1037	1035	290
25°	956	959	966	974	976	441
35°	848	855	868	885	889	531
45°	712	724	749	781	794	549
55°	550	570	621	670	693	490
65°	364	400	483	547	572	361
75°	172	234	326	382	394	184
85°	34	69	84	91	94	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.0	1067.0	1067.0	1067.0	1067.0
2.5°	1068.7	1068.7	1063.6	1067.0	1067.0
5°	1067.0	1065.3	1060.3	1065.3	1065.3
7.5°	1062.0	1060.3	1056.9	1062.0	1060.3
10°	1051.9	1051.9	1048.5	1053.5	1053.5
12.5°	1043.4	1041.8	1040.1	1046.8	1045.1
15°	1030.0	1030.0	1028.3	1036.7	1035.0
17.5°	1013.1	1014.8	1016.5	1023.2	1024.9
20°	994.6	998.0	999.7	1009.8	1009.8
22.5°	977.8	979.5	982.9	993.0	993.0
25°	955.9	959.3	966.0	974.4	976.1
27.5°	934.0	935.7	944.1	955.9	957.6
30°	905.4	910.5	920.6	934.0	935.7
32.5°	880.2	885.2	897.0	910.5	913.9
35°	848.2	854.9	868.4	885.2	888.6
37.5°	819.6	824.7	841.5	860.0	865.0
40°	784.3	794.4	811.2	833.1	841.5
42.5°	748.9	759.0	779.2	807.8	817.9
45°	711.9	723.7	748.9	780.9	794.4
47.5°	674.9	688.3	716.9	754.0	769.1
50°	632.8	649.6	685.0	727.0	743.9
52.5°	592.4	612.6	651.3	698.4	720.3
55°	550.3	570.5	621.0	669.8	693.4
57.5°	503.2	530.1	585.7	641.2	666.5
60°	459.5	484.7	552.0	612.6	637.8
62.5°	412.3	446.0	518.4	582.3	607.6
65°	363.5	400.5	483.0	547.0	572.2
67.5°	319.8	360.2	447.7	511.6	536.9
70°	267.6	318.1	409.0	472.9	498.2
72.5°	218.8	274.3	368.6	430.8	454.4
75°	171.7	233.9	326.5	382.0	393.8
77.5°	127.9	193.5	282.7	306.3	297.9
80°	90.9	154.8	220.5	208.7	213.7
82.5°	58.9	117.8	136.3	154.8	159.9
85°	33.7	69.0	84.1	90.9	94.2
87.5°	15.1	25.2	33.7	33.7	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)