

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: P295055

Luminaire Tested: **24CZ2-55-HRP-UNV-L930-CD1-U**

Issue Date: 12/2/2019

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: P295055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-20)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55-HRP-UNV-L930-CD1-U
Description: 2'x4' TROFFER LED MODULE, HIGH EFFICIENCY ROUND PERF. LENS
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

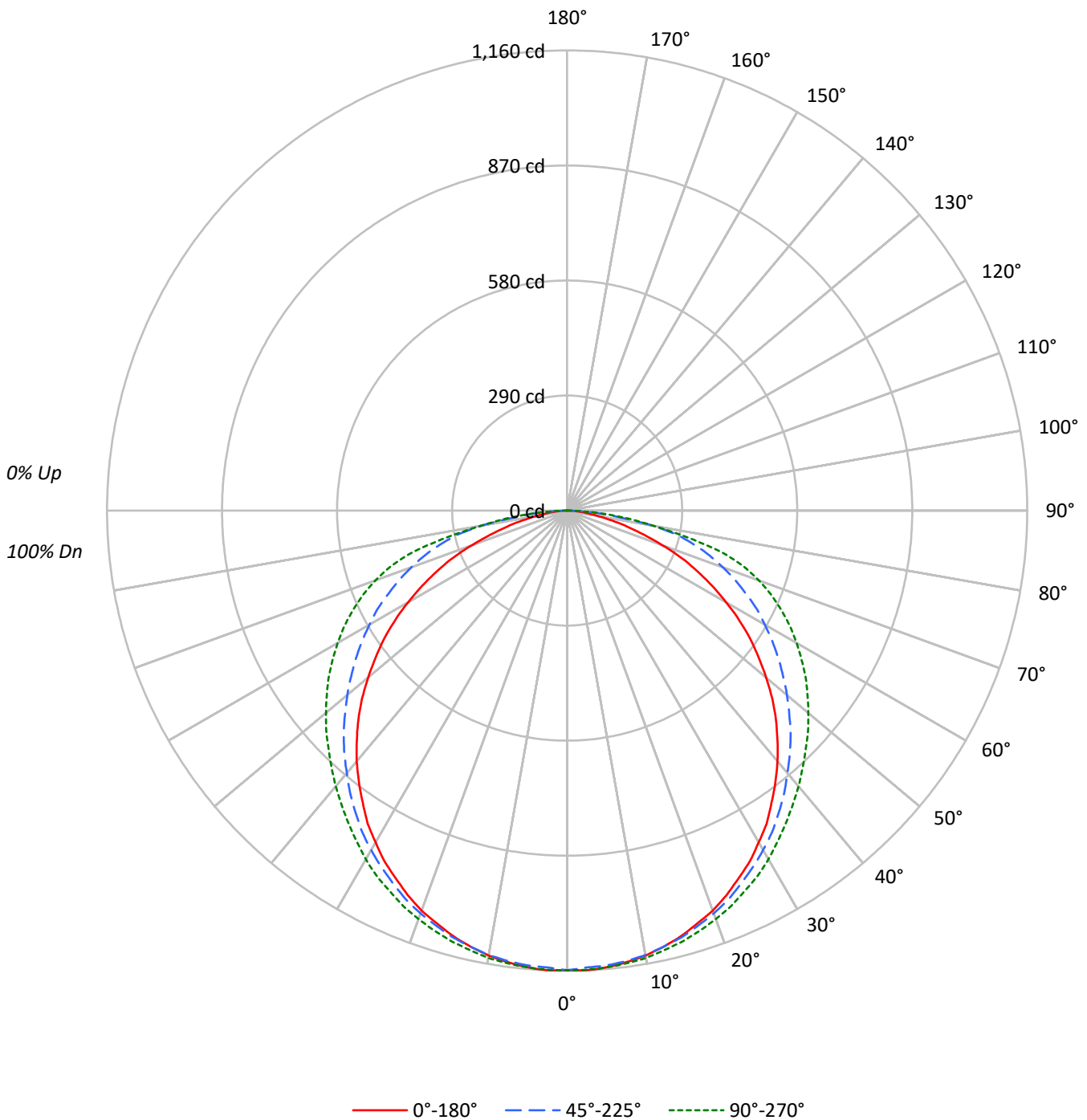
Lumens per Lamp: N/A
Luminaire Lumens: 3570.9 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	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	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1559	1559	1559
5°	1561	1555	1561
10°	1556	1554	1564
15°	1547	1551	1566
20°	1537	1548	1569
25°	1518	1540	1571
30°	1500	1535	1577
35°	1476	1527	1579
40°	1449	1518	1594
45°	1417	1516	1619
50°	1371	1515	1662
55°	1322	1525	1722
60°	1247	1549	1798
65°	1152	1585	1899
70°	1006	1641	2023
75°	816	1725	2090
80°	602	1691	1691
85°	462	1246	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.1
10°-20°	315.2	8.8
20°-30°	479.8	13.4
30°-40°	582.6	16.3
40°-50°	615.5	17.2
50°-60°	580.8	16.3
60°-70°	482.9	13.5
70°-80°	317.7	8.9
80°-90°	86.6	2.4
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°	904.7	25.3
0°-40°	1487.3	41.7
0°-60°	2683.7	75.2
0°-90°	3570.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3570.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1156	1156	1151	1156	1156	110
15°	1111	1112	1114	1124	1124	313
25°	1022	1028	1038	1055	1058	472
35°	898	909	930	954	961	562
45°	744	759	797	836	851	573
55°	564	588	650	712	734	502
65°	362	404	498	571	596	358
75°	157	229	332	393	402	169
85°	30	66	81	90	91	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.6	1158.6	1158.6	1158.6	1158.6
2.5°	1160.1	1158.6	1152.6	1158.6	1158.6
5°	1155.6	1155.6	1151.1	1155.6	1155.6
7.5°	1148.1	1148.1	1145.1	1151.1	1151.1
10°	1139.1	1139.1	1137.7	1145.1	1145.1
12.5°	1125.7	1127.2	1125.7	1134.7	1134.7
15°	1110.7	1112.2	1113.7	1124.2	1124.2
17.5°	1091.3	1094.3	1097.3	1109.3	1110.7
20°	1073.4	1074.9	1080.8	1094.3	1095.8
22.5°	1049.5	1053.9	1061.4	1074.9	1079.4
25°	1022.5	1028.5	1037.5	1055.4	1058.4
27.5°	997.1	1001.6	1013.6	1033.0	1039.0
30°	965.7	973.2	988.2	1007.6	1015.1
32.5°	935.8	943.3	961.3	982.2	988.2
35°	898.5	908.9	929.9	953.8	961.3
37.5°	862.6	873.0	898.5	925.4	934.3
40°	825.2	837.2	864.1	895.5	907.4
42.5°	784.8	801.3	831.2	865.6	879.0
45°	744.5	759.4	796.8	835.7	850.6
47.5°	701.1	719.1	759.4	805.8	823.7
50°	654.8	677.2	723.6	774.4	793.8
52.5°	608.4	633.9	686.2	743.0	763.9
55°	563.6	587.5	650.3	711.6	734.0
57.5°	514.3	544.2	612.9	678.7	701.1
60°	463.4	496.3	575.6	644.3	668.2
62.5°	412.6	450.0	539.7	608.4	633.9
65°	361.8	403.6	497.8	571.1	596.5
67.5°	312.4	358.8	458.9	532.2	557.6
70°	255.6	313.9	417.1	488.8	514.3
72.5°	203.3	270.6	376.7	444.0	466.4
75°	157.0	228.7	331.9	393.2	402.1
77.5°	115.1	186.9	285.5	306.5	308.0
80°	77.7	149.5	218.3	215.3	218.3
82.5°	50.8	112.1	137.5	154.0	155.5
85°	29.9	65.8	80.7	89.7	91.2
87.5°	14.9	22.4	28.4	29.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)