

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: P475155

Luminaire Tested: **22CZ2-55VHE-HRP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475155
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-55VHE-HRP-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS W/ HRP
INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4507.9 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

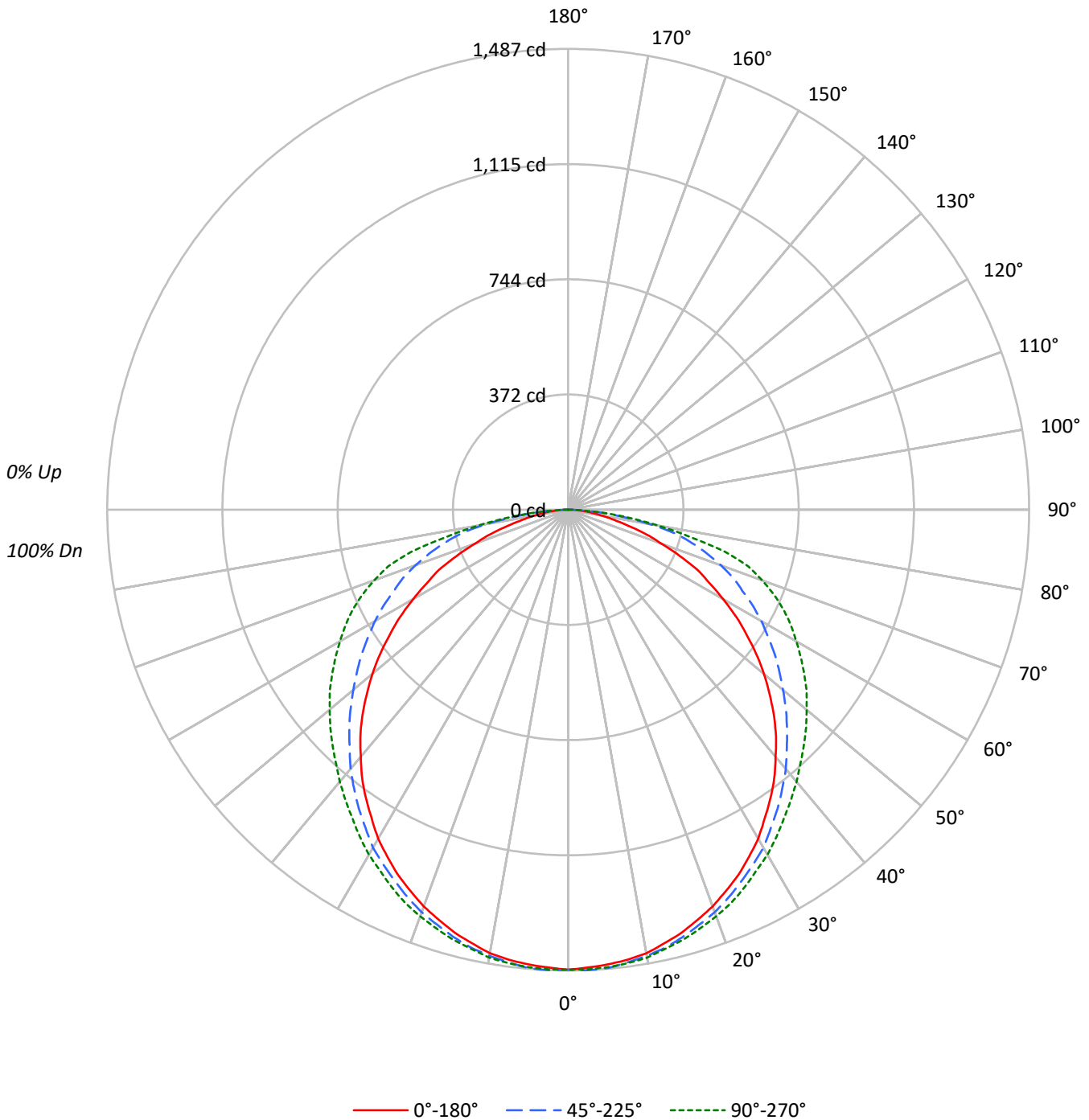
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	84	82
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	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	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	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°	3994	3994	3994
5°	3979	4009	4002
10°	3971	3994	4010
15°	3937	3977	4001
20°	3901	3958	3998
25°	3859	3926	3994
30°	3808	3914	3994
35°	3736	3868	3989
40°	3656	3836	4025
45°	3572	3799	4090
50°	3453	3786	4202
55°	3295	3816	4363
60°	3106	3872	4576
65°	2933	3947	4890
70°	2506	4116	5235
75°	2100	4289	5440
80°	1720	4142	4539
85°	1488	3072	3335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	3.1
10°-20°	402.4	8.9
20°-30°	609.9	13.5
30°-40°	736.4	16.3
40°-50°	773.8	17.2
50°-60°	728.1	16.2
60°-70°	607.1	13.5
70°-80°	402.3	8.9
80°-90°	107.2	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°	1153.0	25.6
0°-40°	1889.4	41.9
0°-60°	3391.3	75.2
0°-90°	4507.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4507.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1473	1476	1484	1484	1482	140
15°	1413	1419	1428	1433	1436	399
25°	1300	1308	1322	1339	1345	598
35°	1137	1149	1177	1203	1214	711
45°	938	952	998	1049	1075	723
55°	702	734	813	896	930	628
65°	461	500	620	722	768	448
75°	202	282	412	498	523	219
85°	48	74	100	108	108	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.3	1484.3	1484.3	1484.3	1484.3
2.5°	1478.8	1481.5	1487.3	1487.3	1484.3
5°	1473.0	1475.7	1484.3	1484.3	1481.5
7.5°	1464.4	1467.5	1473.0	1478.8	1475.7
10°	1453.1	1455.9	1461.7	1467.5	1467.5
12.5°	1433.3	1436.1	1447.4	1450.4	1450.4
15°	1413.2	1419.0	1427.5	1433.3	1436.1
17.5°	1387.8	1393.3	1404.6	1416.2	1416.2
20°	1362.2	1367.7	1382.1	1393.3	1396.1
22.5°	1330.8	1339.3	1353.7	1367.7	1373.5
25°	1299.7	1308.2	1322.3	1339.3	1345.1
27.5°	1262.5	1271.0	1291.1	1311.0	1313.7
30°	1225.6	1234.1	1259.7	1276.8	1285.3
32.5°	1180.1	1191.4	1217.0	1242.6	1251.2
35°	1137.4	1149.0	1177.3	1203.0	1214.3
37.5°	1091.9	1103.2	1134.6	1166.0	1180.1
40°	1040.7	1055.0	1091.9	1126.1	1145.9
42.5°	992.5	1006.8	1043.7	1089.2	1109.0
45°	938.5	952.5	998.2	1049.2	1074.8
47.5°	881.4	898.5	952.5	1015.3	1040.7
50°	824.7	844.5	904.3	975.4	1003.8
52.5°	764.9	790.5	858.8	935.7	969.6
55°	702.3	733.7	813.4	895.7	929.9
57.5°	642.5	671.2	764.9	853.0	890.0
60°	577.2	614.2	719.4	810.3	850.3
62.5°	514.7	554.6	671.2	767.9	810.3
65°	460.7	500.4	619.9	722.2	767.9
67.5°	389.6	443.6	577.2	673.9	719.4
70°	318.5	392.4	523.2	622.7	665.4
72.5°	264.5	335.6	469.2	568.7	608.6
75°	202.0	281.6	412.5	497.6	523.2
77.5°	150.7	233.1	352.7	395.4	398.1
80°	111.0	179.1	267.3	281.6	292.9
82.5°	76.9	125.1	173.6	190.4	196.2
85°	48.2	73.8	99.5	108.0	108.0
87.5°	25.6	28.4	34.2	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)