

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: P475126

Luminaire Tested: **22CZ2-55VHE-HRP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475126
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-L830-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS W/ HRP
INSERT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4350.0 lumens
Efficiency: N/A
Efficacy: 113.0 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

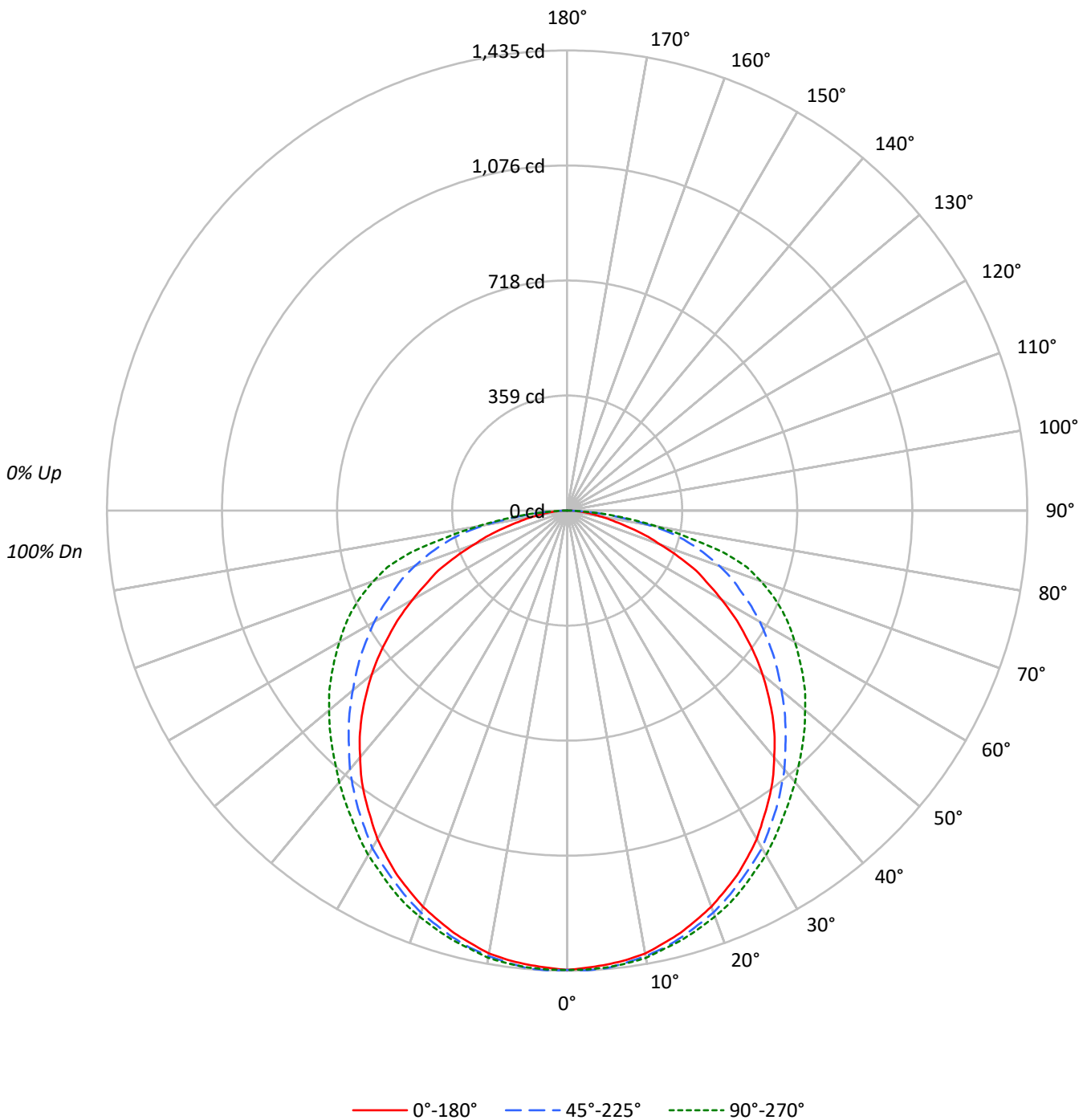
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3854	3854	3854
5°	3840	3869	3862
10°	3832	3854	3869
15°	3799	3838	3861
20°	3764	3819	3858
25°	3724	3789	3854
30°	3675	3777	3854
35°	3606	3732	3849
40°	3528	3701	3884
45°	3446	3666	3947
50°	3332	3653	4055
55°	3179	3682	4210
60°	2998	3736	4416
65°	2831	3809	4718
70°	2419	3973	5052
75°	2026	4138	5250
80°	1661	3997	4379
85°	1436	2964	3217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	3.1
10°-20°	388.3	8.9
20°-30°	588.5	13.5
30°-40°	710.7	16.3
40°-50°	746.7	17.2
50°-60°	702.6	16.2
60°-70°	585.8	13.5
70°-80°	388.2	8.9
80°-90°	103.4	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°	1112.6	25.6
0°-40°	1823.3	41.9
0°-60°	3272.6	75.2
0°-90°	4350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1421	1424	1432	1432	1430	135
15°	1364	1369	1378	1383	1386	385
25°	1254	1262	1276	1292	1298	577
35°	1098	1109	1136	1161	1172	686
45°	906	919	963	1012	1037	697
55°	678	708	785	864	897	606
65°	445	483	598	697	741	433
75°	195	272	398	480	505	212
85°	46	71	96	104	104	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.3	1432.3	1432.3	1432.3	1432.3
2.5°	1427.0	1429.7	1435.2	1435.2	1432.3
5°	1421.4	1424.1	1432.3	1432.3	1429.7
7.5°	1413.2	1416.1	1421.4	1427.0	1424.1
10°	1402.3	1404.9	1410.5	1416.1	1416.1
12.5°	1383.1	1385.8	1396.7	1399.6	1399.6
15°	1363.7	1369.3	1377.6	1383.1	1385.8
17.5°	1339.3	1344.6	1355.5	1366.7	1366.7
20°	1314.5	1319.9	1333.7	1344.6	1347.2
22.5°	1284.2	1292.5	1306.3	1319.9	1325.4
25°	1254.2	1262.4	1276.0	1292.5	1298.1
27.5°	1218.3	1226.5	1245.9	1265.1	1267.7
30°	1182.7	1190.9	1215.6	1232.1	1240.4
32.5°	1138.8	1149.7	1174.4	1199.1	1207.4
35°	1097.6	1108.7	1136.1	1160.9	1171.8
37.5°	1053.7	1064.6	1094.9	1125.2	1138.8
40°	1004.2	1018.1	1053.7	1086.7	1105.8
42.5°	957.7	971.5	1007.2	1051.0	1070.2
45°	905.6	919.2	963.3	1012.5	1037.2
47.5°	850.6	867.1	919.2	979.8	1004.2
50°	795.8	814.9	872.6	941.2	968.6
52.5°	738.1	762.8	828.8	902.9	935.7
55°	677.7	708.1	784.9	864.4	897.4
57.5°	620.0	647.7	738.1	823.2	858.8
60°	557.0	592.7	694.2	782.0	820.5
62.5°	496.7	535.2	647.7	741.0	782.0
65°	444.6	482.8	598.2	696.9	741.0
67.5°	376.0	428.1	557.0	650.4	694.2
70°	307.4	378.6	504.9	600.9	642.1
72.5°	255.2	323.8	452.8	548.8	587.3
75°	194.9	271.7	398.0	480.2	504.9
77.5°	145.4	224.9	340.3	381.5	384.2
80°	107.2	172.8	257.9	271.7	282.6
82.5°	74.2	120.7	167.5	183.7	189.3
85°	46.5	71.3	96.0	104.2	104.2
87.5°	24.7	27.4	33.0	33.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)