

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: P475072

Luminaire Tested: **22CZ2-75VHE-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475072
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-RDP-UNV-L840-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS W/ RDP
INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5181.4 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

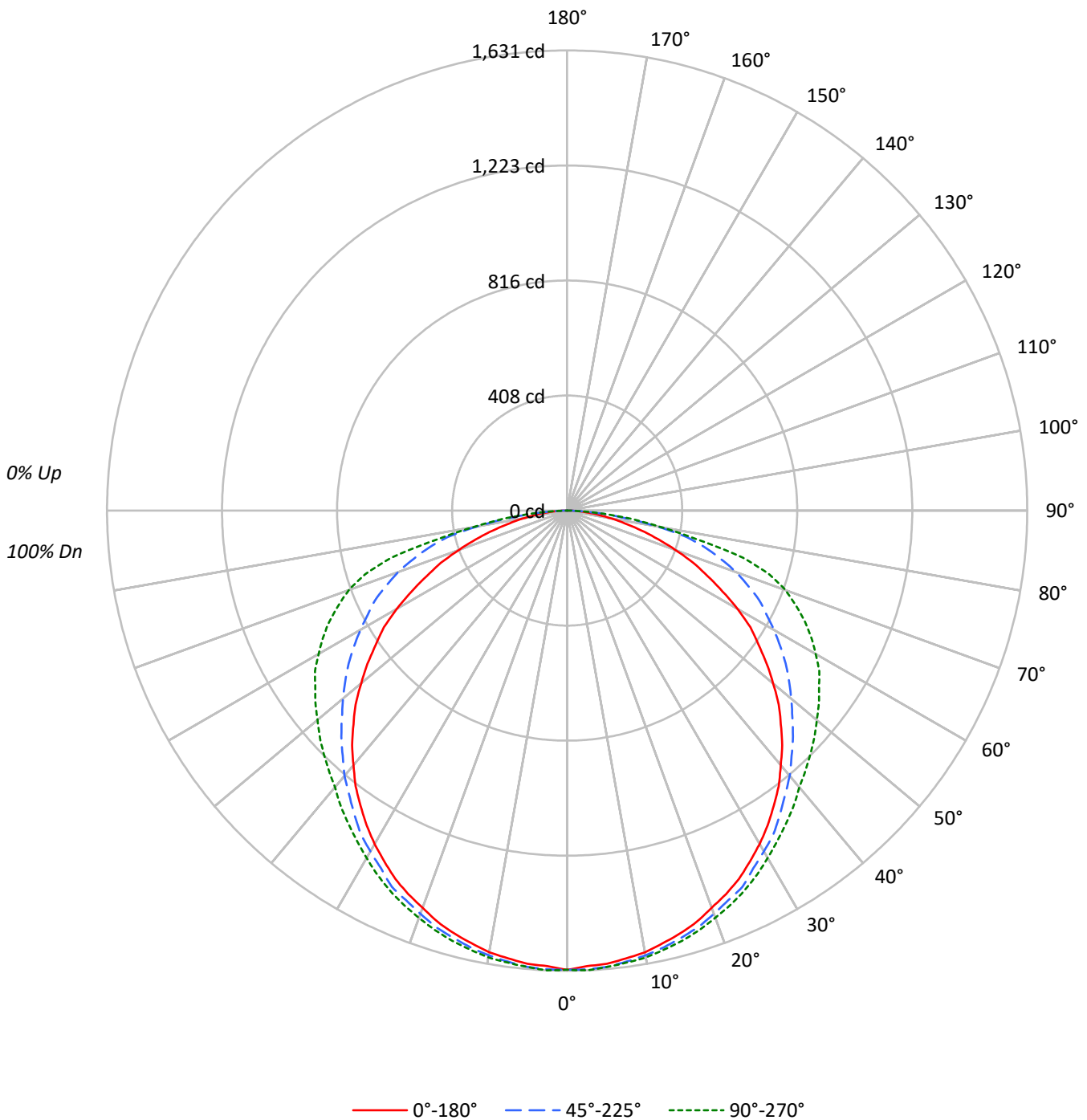
Input Watts (W): 55.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475072

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475072

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L840-CD1-U

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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4380	4380	4380
5°	4355	4386	4386
10°	4342	4375	4395
15°	4322	4364	4396
20°	4290	4355	4399
25°	4278	4369	4414
30°	4240	4334	4418
35°	4194	4320	4446
40°	4138	4311	4498
45°	4076	4308	4641
50°	3989	4340	4834
55°	3881	4435	5114
60°	3754	4554	5477
65°	3494	4783	5923
70°	3209	5009	6478
75°	2816	5269	6698
80°	2424	5018	5260
85°	2118	3649	3998



TEST NUMBER: P475072

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	3.0
10°-20°	442.0	8.5
20°-30°	674.4	13.0
30°-40°	823.4	15.9
40°-50°	880.5	17.0
50°-60°	849.8	16.4
60°-70°	731.6	14.1
70°-80°	495.0	9.6
80°-90°	130.7	2.5
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°	1270.4	24.5
0°-40°	2093.8	40.4
0°-60°	3824.1	73.8
0°-90°	5181.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5181.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1612	1616	1624	1624	1624	153
15°	1551	1555	1566	1574	1578	438
25°	1441	1448	1471	1479	1487	663
35°	1277	1288	1315	1342	1353	799
45°	1071	1090	1132	1189	1220	827
55°	827	854	945	1040	1090	741
65°	549	602	751	869	930	546
75°	271	358	507	610	644	290
85°	69	95	118	122	130	77
90°	0	0	0	0	0	



TEST NUMBER: P475072

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.5	1627.5	1627.5	1627.5	1627.5
2.5°	1616.1	1619.9	1627.5	1627.5	1631.3
5°	1612.3	1616.1	1623.7	1623.7	1623.7
7.5°	1601.0	1604.7	1612.3	1616.1	1616.1
10°	1589.2	1593.4	1601.0	1604.7	1608.5
12.5°	1570.3	1574.1	1585.4	1593.4	1593.4
15°	1551.3	1555.1	1566.5	1574.1	1577.9
17.5°	1528.2	1536.2	1547.6	1555.1	1558.9
20°	1497.9	1505.5	1520.7	1532.4	1536.2
22.5°	1471.4	1479.0	1494.2	1505.5	1513.1
25°	1440.7	1448.3	1471.4	1479.0	1486.6
27.5°	1402.5	1410.4	1429.4	1444.5	1455.9
30°	1364.6	1372.2	1394.9	1414.2	1421.8
32.5°	1322.6	1333.9	1360.8	1376.0	1387.3
35°	1276.8	1288.1	1315.0	1341.5	1353.3
37.5°	1231.3	1242.7	1269.2	1303.6	1318.8
40°	1177.9	1193.0	1227.1	1273.0	1280.5
42.5°	1128.3	1147.2	1177.9	1231.3	1250.2
45°	1071.1	1090.0	1132.1	1189.3	1219.6
47.5°	1017.7	1036.6	1082.5	1151.0	1189.3
50°	952.9	979.4	1036.6	1116.9	1154.8
52.5°	891.9	914.7	991.2	1078.7	1124.5
55°	827.2	853.7	945.3	1040.4	1090.0
57.5°	770.0	792.7	895.7	1002.5	1059.7
60°	697.6	727.9	846.1	960.5	1017.7
62.5°	621.1	667.0	796.5	914.7	975.6
65°	548.8	602.2	751.1	868.8	930.2
67.5°	484.0	541.2	693.9	819.6	876.8
70°	407.9	480.2	636.7	758.6	823.4
72.5°	339.4	419.3	571.9	693.9	751.1
75°	270.8	358.3	506.8	609.8	644.2
77.5°	209.4	293.5	434.4	465.1	468.9
80°	156.4	232.5	323.8	327.6	339.4
82.5°	106.8	164.0	209.4	228.8	232.5
85°	68.6	95.4	118.2	122.0	129.5
87.5°	30.7	34.5	42.0	38.3	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)