

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: P474927

Luminaire Tested: **22CZ2-75VHE-S-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474927
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-S-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7741.2 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

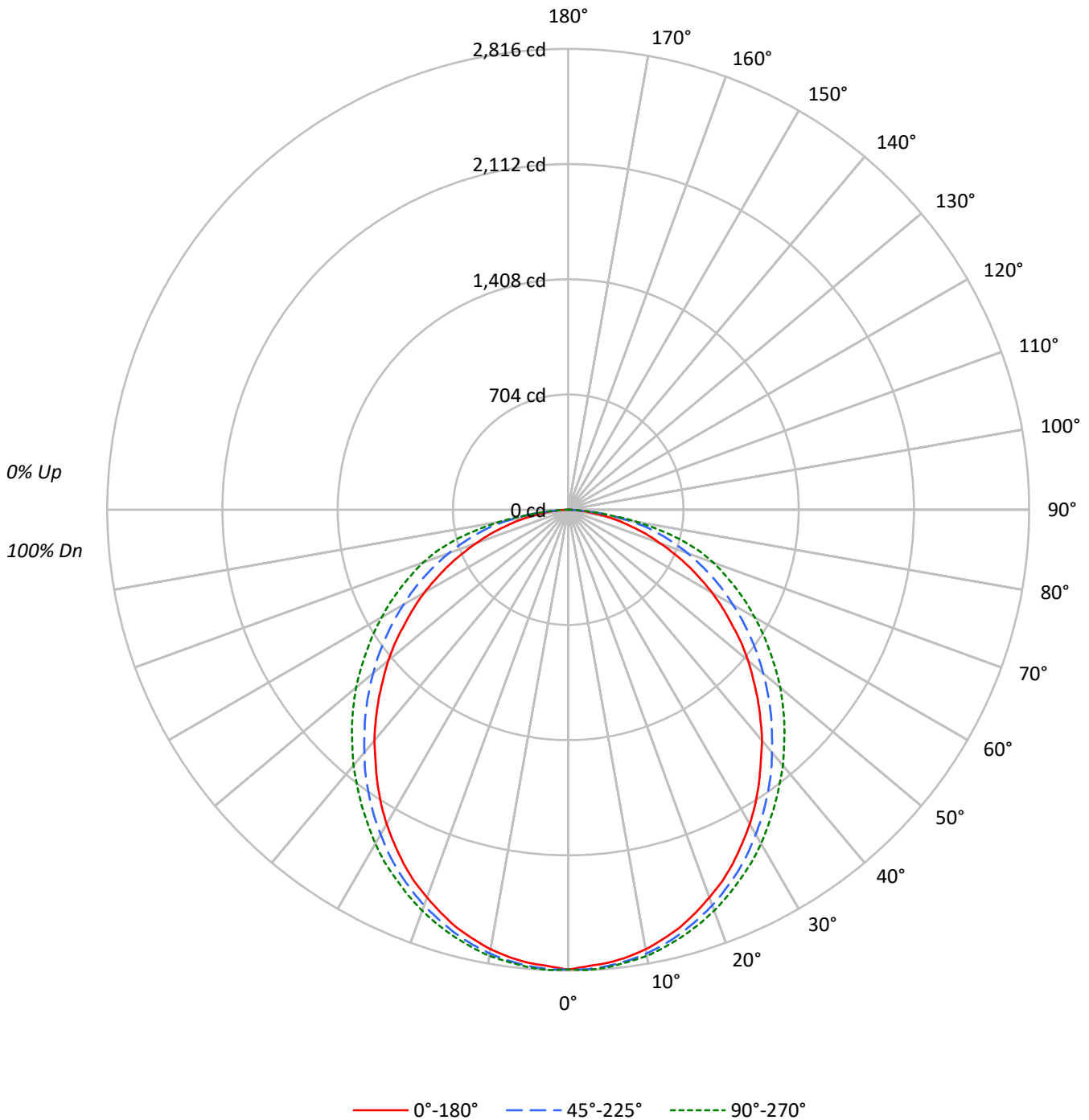
Input Watts (W): 55.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P474927

CATALOG NUMBER: 22CZ2-75VHE-S-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P474927

CATALOG NUMBER: 22CZ2-75VHE-S-UNV-L835-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7562	7562	7562
5°	7510	7560	7581
10°	7453	7525	7566
15°	7359	7458	7521
20°	7221	7371	7468
25°	7075	7259	7392
30°	6892	7119	7323
35°	6677	6973	7231
40°	6469	6805	7167
45°	6231	6659	7108
50°	6008	6509	7082
55°	5722	6381	7049
60°	5465	6251	7078
65°	5130	6179	7181
70°	4687	6102	7414
75°	4207	6057	7421
80°	3543	5720	6591
85°	2661	3875	3585



TEST NUMBER: P474927

CATALOG NUMBER: 22CZ2-75VHE-S-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	3.4
10°-20°	753.8	9.7
20°-30°	1123.8	14.5
30°-40°	1326.1	17.1
40°-50°	1351.1	17.5
50°-60°	1218.5	15.7
60°-70°	956.9	12.4
70°-80°	598.2	7.7
80°-90°	147.5	1.9
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°	2143.0	27.7
0°-40°	3469.1	44.8
0°-60°	6038.6	78.0
0°-90°	7741.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7741.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2810	2810	2810	2810	2810	
5°	2780	2786	2799	2804	2806	264
15°	2642	2651	2677	2696	2700	744
25°	2383	2396	2445	2480	2490	1096
35°	2033	2061	2122	2181	2201	1271
45°	1637	1665	1750	1834	1868	1263
55°	1220	1259	1360	1465	1502	1094
65°	806	849	970	1079	1128	796
75°	405	461	583	682	714	433
85°	86	110	126	124	116	105
90°	0	0	0	0	0	



TEST NUMBER: P474927

CATALOG NUMBER: 22CZ2-75VHE-S-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2810.1	2810.1	2810.1	2810.1	2810.1
2.5°	2791.3	2796.9	2810.1	2815.7	2815.7
5°	2780.1	2785.7	2798.8	2804.4	2806.3
7.5°	2757.6	2765.1	2780.1	2787.6	2787.6
10°	2727.6	2737.0	2753.9	2765.1	2768.8
12.5°	2686.4	2697.7	2720.1	2733.3	2737.0
15°	2641.5	2650.8	2677.1	2695.8	2699.5
17.5°	2583.4	2598.4	2626.5	2650.8	2656.4
20°	2521.6	2538.4	2574.0	2602.1	2607.7
22.5°	2457.9	2471.0	2510.3	2544.0	2551.5
25°	2382.9	2396.0	2444.8	2480.3	2489.7
27.5°	2300.5	2323.0	2371.7	2412.9	2427.9
30°	2218.1	2240.6	2291.1	2339.8	2356.7
32.5°	2128.2	2152.5	2210.6	2261.2	2278.0
35°	2032.6	2060.7	2122.5	2180.6	2201.2
37.5°	1933.3	1965.2	2034.5	2096.3	2118.8
40°	1841.5	1864.0	1937.1	2008.3	2040.1
42.5°	1738.5	1768.5	1841.5	1922.1	1952.1
45°	1637.3	1665.4	1749.7	1834.0	1867.8
47.5°	1532.4	1568.0	1652.3	1746.0	1779.7
50°	1435.0	1465.0	1554.9	1654.2	1691.7
52.5°	1330.1	1361.9	1459.4	1562.4	1596.1
55°	1219.6	1258.9	1360.1	1465.0	1502.4
57.5°	1118.4	1155.9	1262.7	1371.3	1410.7
60°	1015.4	1052.8	1161.5	1272.0	1315.1
62.5°	906.7	949.8	1067.8	1174.6	1223.3
65°	805.6	848.6	970.4	1079.1	1127.8
67.5°	698.8	749.3	871.1	985.4	1034.1
70°	595.7	655.7	775.6	888.0	942.3
72.5°	503.9	552.6	678.2	796.2	841.1
75°	404.6	460.8	582.6	681.9	713.8
77.5°	320.3	369.1	485.2	550.8	571.4
80°	228.6	282.9	369.1	408.4	425.3
82.5°	151.7	196.7	251.0	258.5	254.8
85°	86.2	110.5	125.5	123.6	116.1
87.5°	33.7	37.5	28.1	16.9	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)