

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: P475014

Luminaire Tested: **22CZ2-75VHE-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475014
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-L830-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS W/ RDP
INSERT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4906.8 lumens
Efficiency: N/A
Efficacy: 88.9 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

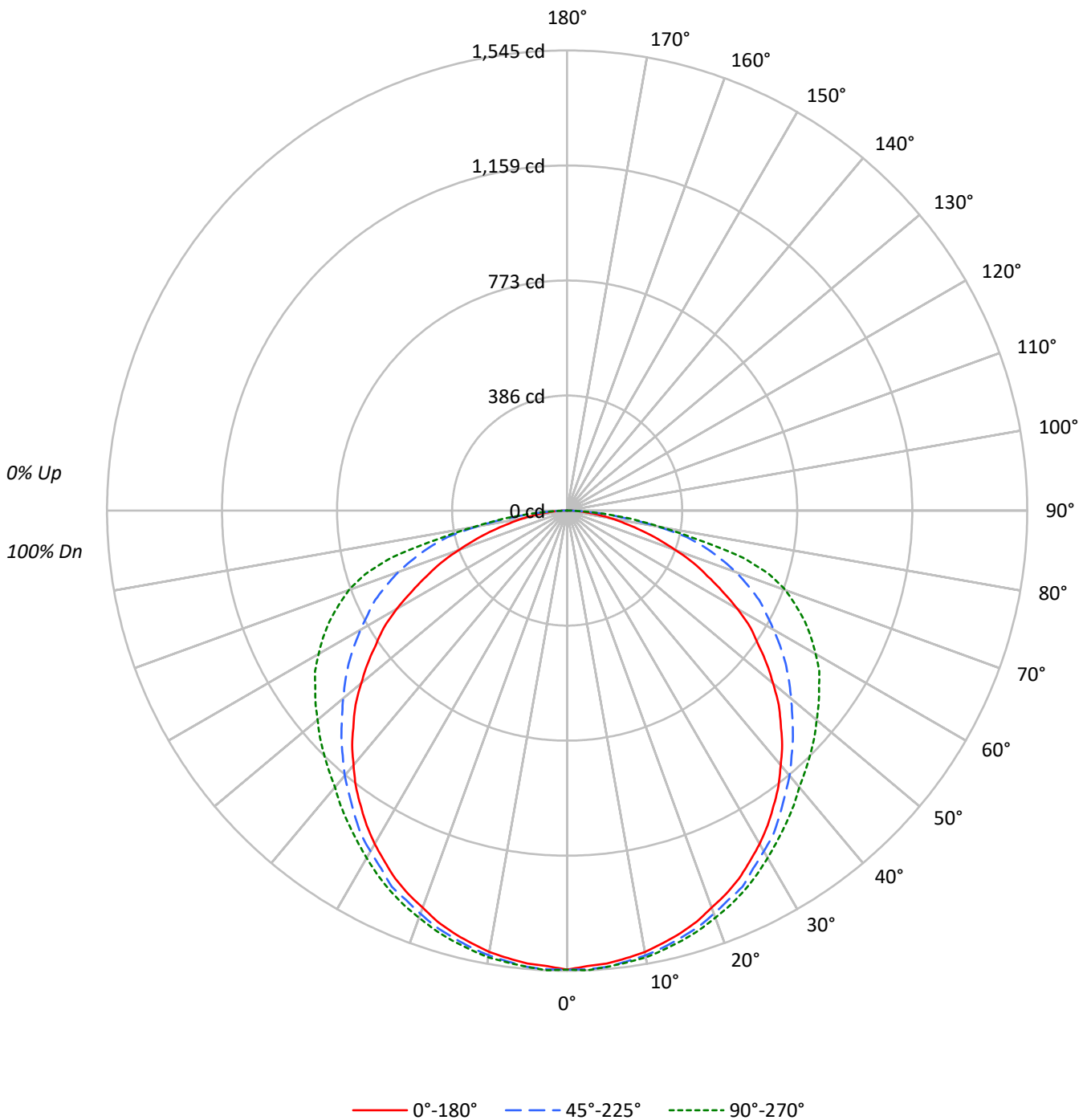
Input Watts (W): 55.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475014

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475014

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L830-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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4147	4147	4147
5°	4125	4153	4153
10°	4112	4143	4162
15°	4093	4133	4163
20°	4062	4124	4166
25°	4051	4138	4180
30°	4016	4105	4184
35°	3972	4091	4210
40°	3919	4082	4260
45°	3860	4080	4395
50°	3778	4110	4578
55°	3675	4200	4843
60°	3556	4313	5187
65°	3309	4529	5609
70°	3039	4744	6135
75°	2667	4990	6343
80°	2295	4753	4981
85°	2004	3455	3788



TEST NUMBER: P475014

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	3.0
10°-20°	418.6	8.5
20°-30°	638.7	13.0
30°-40°	779.8	15.9
40°-50°	833.8	17.0
50°-60°	804.8	16.4
60°-70°	692.8	14.1
70°-80°	468.8	9.6
80°-90°	123.7	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°	1203.1	24.5
0°-40°	1982.9	40.4
0°-60°	3621.5	73.8
0°-90°	4906.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4906.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1527	1530	1538	1538	1538	145
15°	1469	1473	1484	1491	1494	414
25°	1364	1372	1394	1401	1408	628
35°	1209	1220	1245	1270	1282	757
45°	1014	1032	1072	1126	1155	783
55°	783	808	895	985	1032	702
65°	520	570	711	823	881	517
75°	256	339	480	578	610	275
85°	65	90	112	116	123	73
90°	0	0	0	0	0	



TEST NUMBER: P475014

CATALOG NUMBER: 22CZ2-75VHE-RDP-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1541.2	1541.2	1541.2	1541.2	1541.2
2.5°	1530.5	1534.1	1541.2	1541.2	1544.8
5°	1526.9	1530.5	1537.6	1537.6	1537.6
7.5°	1516.1	1519.7	1526.9	1530.5	1530.5
10°	1505.0	1508.9	1516.1	1519.7	1523.3
12.5°	1487.1	1490.7	1501.4	1508.9	1508.9
15°	1469.1	1472.7	1483.5	1490.7	1494.2
17.5°	1447.3	1454.8	1465.5	1472.7	1476.3
20°	1418.6	1425.7	1440.1	1451.2	1454.8
22.5°	1393.5	1400.6	1415.0	1425.7	1432.9
25°	1364.4	1371.6	1393.5	1400.6	1407.8
27.5°	1328.2	1335.7	1353.6	1368.0	1378.7
30°	1292.3	1299.5	1321.0	1339.3	1346.5
32.5°	1252.5	1263.3	1288.7	1303.1	1313.8
35°	1209.1	1219.9	1245.3	1270.4	1281.5
37.5°	1166.1	1176.8	1201.9	1234.6	1248.9
40°	1115.5	1129.8	1162.1	1205.5	1212.7
42.5°	1068.5	1086.4	1115.5	1166.1	1184.0
45°	1014.3	1032.3	1072.1	1126.2	1154.9
47.5°	963.8	981.7	1025.1	1090.0	1126.2
50°	902.4	927.5	981.7	1057.7	1093.6
52.5°	844.7	866.2	938.7	1021.5	1064.9
55°	783.3	808.5	895.3	985.3	1032.3
57.5°	729.2	750.7	848.3	949.4	1003.6
60°	660.7	689.4	801.3	909.6	963.8
62.5°	588.2	631.6	754.3	866.2	923.9
65°	519.7	570.3	711.3	822.8	880.9
67.5°	458.4	512.5	657.1	776.2	830.3
70°	386.3	454.8	602.9	718.4	779.8
72.5°	321.4	397.1	541.6	657.1	711.3
75°	256.5	339.3	479.9	577.5	610.1
77.5°	198.3	278.0	411.4	440.5	444.0
80°	148.1	220.2	306.7	310.3	321.4
82.5°	101.1	155.3	198.3	216.6	220.2
85°	64.9	90.4	111.9	115.5	122.7
87.5°	29.1	32.6	39.8	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)