

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: P475019

Luminaire Tested: **22CZ2-100VHE-RDP-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475019
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-100VHE-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: 6479.3 lumens
Efficiency: N/A
Efficacy: 85.5 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

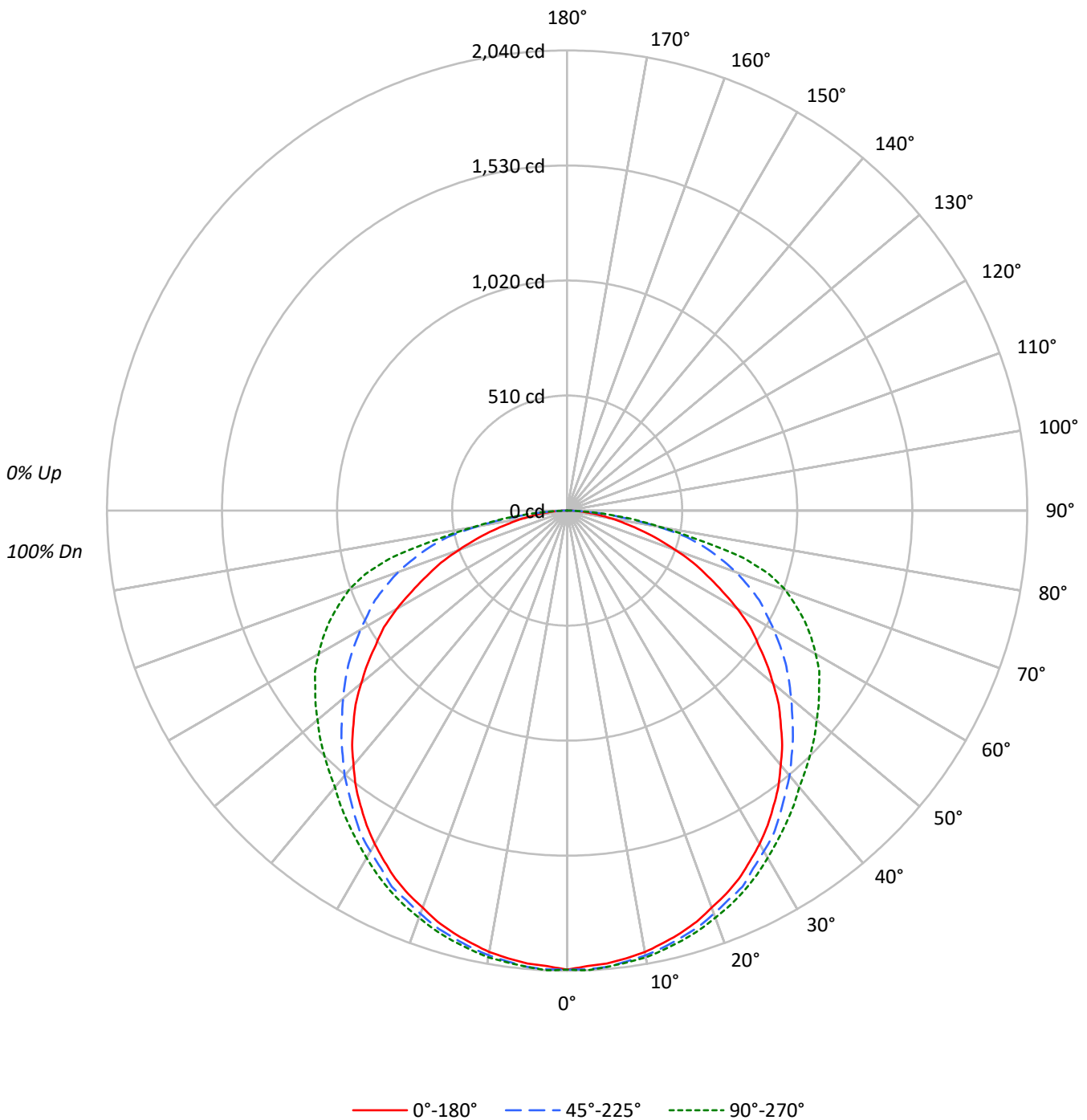
Input Watts (W): 75.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5476	5476	5476
5°	5446	5485	5485
10°	5430	5470	5496
15°	5404	5457	5497
20°	5364	5446	5501
25°	5349	5463	5519
30°	5302	5420	5525
35°	5245	5402	5559
40°	5174	5390	5625
45°	5097	5387	5804
50°	4989	5427	6046
55°	4853	5546	6395
60°	4695	5695	6849
65°	4370	5980	7407
70°	4013	6264	8101
75°	3520	6589	8376
80°	3031	6275	6577
85°	2646	4563	5002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	3.0
10°-20°	552.8	8.5
20°-30°	843.3	13.0
30°-40°	1029.7	15.9
40°-50°	1101.0	17.0
50°-60°	1062.7	16.4
60°-70°	914.8	14.1
70°-80°	619.0	9.6
80°-90°	163.4	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°	1588.6	24.5
0°-40°	2618.3	40.4
0°-60°	4782.1	73.8
0°-90°	6479.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6479.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2035	2035	2035	2035	2035	
5°	2016	2021	2030	2030	2030	191
15°	1940	1945	1959	1968	1973	547
25°	1802	1811	1840	1850	1859	829
35°	1597	1611	1644	1678	1692	999
45°	1339	1363	1416	1487	1525	1034
55°	1034	1068	1182	1301	1363	927
65°	686	753	939	1086	1163	683
75°	339	448	634	762	806	363
85°	86	119	148	152	162	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2035.1	2035.1	2035.1	2035.1	2035.1
2.5°	2020.9	2025.7	2035.1	2035.1	2039.9
5°	2016.2	2020.9	2030.4	2030.4	2030.4
7.5°	2002.0	2006.7	2016.2	2020.9	2020.9
10°	1987.3	1992.5	2002.0	2006.7	2011.5
12.5°	1963.6	1968.4	1982.6	1992.5	1992.5
15°	1939.9	1944.7	1958.9	1968.4	1973.1
17.5°	1911.0	1921.0	1935.2	1944.7	1949.4
20°	1873.2	1882.6	1901.6	1916.3	1921.0
22.5°	1840.0	1849.5	1868.4	1882.6	1892.1
25°	1801.6	1811.1	1840.0	1849.5	1858.9
27.5°	1753.8	1763.7	1787.4	1806.4	1820.6
30°	1706.4	1715.9	1744.3	1768.5	1778.0
32.5°	1653.9	1668.1	1701.7	1720.6	1734.9
35°	1596.6	1610.8	1644.4	1677.6	1692.2
37.5°	1539.7	1553.9	1587.1	1630.2	1649.1
40°	1472.9	1491.9	1534.5	1591.8	1601.3
42.5°	1410.9	1434.6	1472.9	1539.7	1563.4
45°	1339.4	1363.1	1415.6	1487.2	1525.0
47.5°	1272.6	1296.3	1353.6	1439.3	1487.2
50°	1191.6	1224.8	1296.3	1396.7	1444.1
52.5°	1115.4	1143.8	1239.5	1348.9	1406.2
55°	1034.4	1067.5	1182.1	1301.0	1363.1
57.5°	962.9	991.3	1120.1	1253.7	1325.2
60°	872.4	910.3	1058.1	1201.1	1272.6
62.5°	776.7	834.0	996.0	1143.8	1220.0
65°	686.3	753.1	939.2	1086.5	1163.2
67.5°	605.3	676.8	867.7	1024.9	1096.4
70°	510.1	600.5	796.1	948.7	1029.6
72.5°	424.4	524.3	715.2	867.7	939.2
75°	338.6	448.0	633.7	762.5	805.6
77.5°	261.9	367.1	543.2	581.6	586.3
80°	195.6	290.8	404.9	409.7	424.4
82.5°	133.6	205.1	261.9	286.1	290.8
85°	85.7	119.4	147.8	152.5	162.0
87.5°	38.4	43.1	52.6	47.8	47.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)