

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: P474922

Luminaire Tested: **22CZ2-50VHE-S-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474922
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-50VHE-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: 5189.1 lumens
Efficiency: N/A
Efficacy: 148.3 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

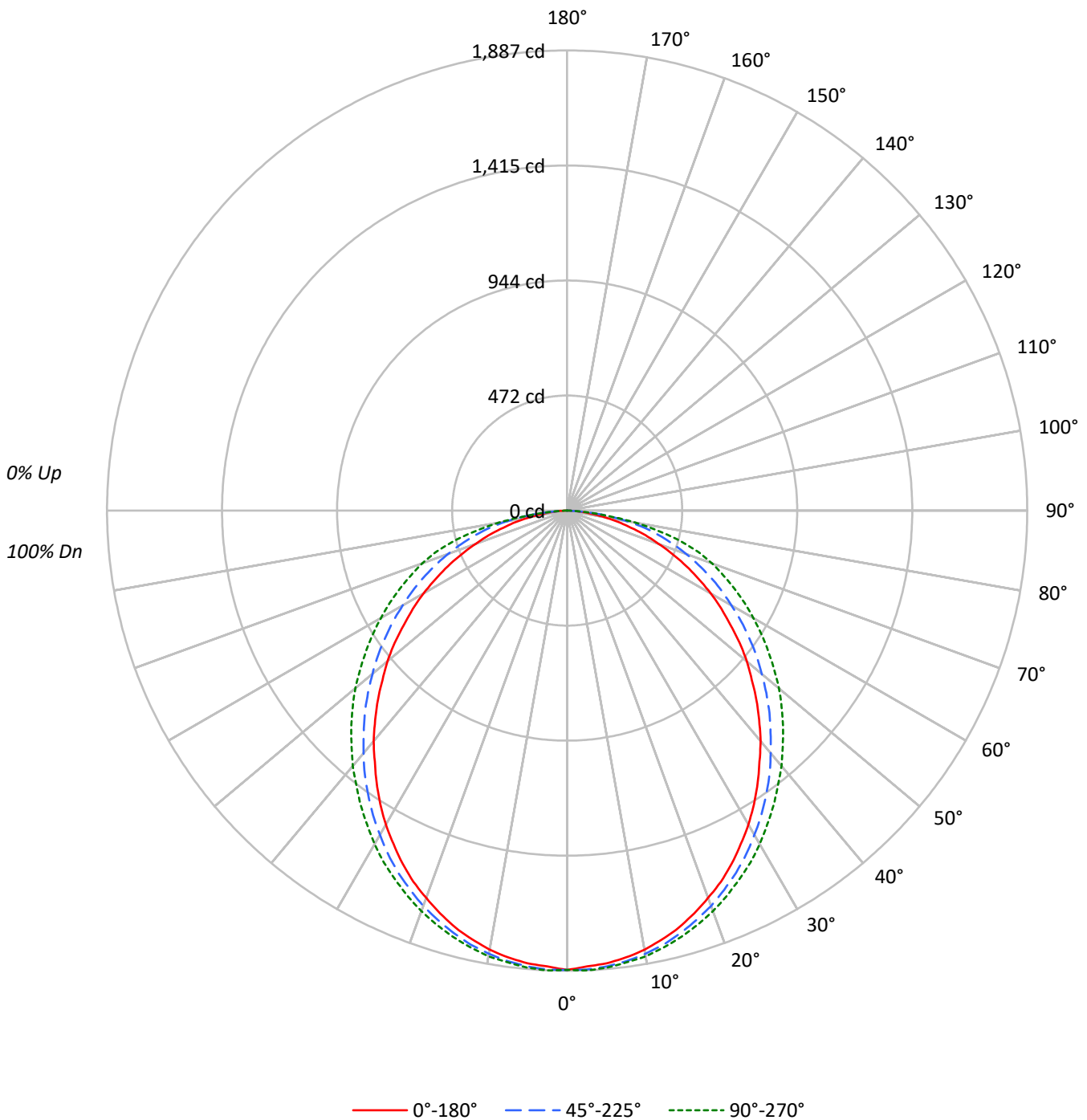
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5069	5069	5069
5°	5034	5068	5081
10°	4996	5044	5072
15°	4933	4999	5041
20°	4840	4941	5006
25°	4743	4866	4955
30°	4620	4772	4909
35°	4476	4674	4847
40°	4336	4561	4804
45°	4177	4464	4765
50°	4027	4364	4747
55°	3835	4277	4725
60°	3663	4190	4744
65°	3438	4142	4814
70°	3142	4091	4969
75°	2820	4060	4974
80°	2374	3834	4418
85°	1785	2597	2405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	3.4
10°-20°	505.3	9.7
20°-30°	753.3	14.5
30°-40°	888.9	17.1
40°-50°	905.6	17.5
50°-60°	816.8	15.7
60°-70°	641.4	12.4
70°-80°	401.0	7.7
80°-90°	98.9	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°	1436.5	27.7
0°-40°	2325.4	44.8
0°-60°	4047.8	78.0
0°-90°	5189.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5189.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1884	1884	1884	1884	1884	
5°	1864	1867	1876	1880	1881	177
15°	1771	1777	1794	1807	1810	498
25°	1597	1606	1639	1663	1669	735
35°	1362	1381	1423	1462	1476	852
45°	1098	1116	1173	1229	1252	847
55°	818	844	912	982	1007	733
65°	540	569	650	723	756	533
75°	271	309	390	457	478	290
85°	58	74	84	83	78	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1883.6	1883.6	1883.6	1883.6	1883.6
2.5°	1871.1	1874.8	1883.6	1887.4	1887.4
5°	1863.5	1867.3	1876.1	1879.9	1881.1
7.5°	1848.5	1853.5	1863.5	1868.5	1868.5
10°	1828.4	1834.6	1845.9	1853.5	1856.0
12.5°	1800.7	1808.3	1823.3	1832.1	1834.6
15°	1770.6	1776.9	1794.5	1807.0	1809.5
17.5°	1731.7	1741.7	1760.6	1776.9	1780.6
20°	1690.2	1701.5	1725.4	1744.2	1748.0
22.5°	1647.5	1656.3	1682.7	1705.3	1710.3
25°	1597.3	1606.1	1638.7	1662.6	1668.9
27.5°	1542.1	1557.1	1589.8	1617.4	1627.4
30°	1486.8	1501.9	1535.8	1568.4	1579.7
32.5°	1426.5	1442.9	1481.8	1515.7	1527.0
35°	1362.5	1381.3	1422.8	1461.7	1475.5
37.5°	1295.9	1317.3	1363.7	1405.2	1420.2
40°	1234.4	1249.5	1298.4	1346.2	1367.5
42.5°	1165.3	1185.4	1234.4	1288.4	1308.5
45°	1097.5	1116.4	1172.9	1229.4	1252.0
47.5°	1027.2	1051.1	1107.6	1170.4	1193.0
50°	961.9	982.0	1042.3	1108.8	1133.9
52.5°	891.6	912.9	978.2	1047.3	1069.9
55°	817.5	843.9	911.7	982.0	1007.1
57.5°	749.7	774.8	846.4	919.2	945.6
60°	680.6	705.7	778.6	852.7	881.5
62.5°	607.8	636.7	715.8	787.4	820.0
65°	540.0	568.9	650.5	723.3	756.0
67.5°	468.4	502.3	583.9	660.5	693.2
70°	399.3	439.5	519.9	595.2	631.6
72.5°	337.8	370.4	454.6	533.7	563.8
75°	271.2	308.9	390.5	457.1	478.4
77.5°	214.7	247.4	325.2	369.2	383.0
80°	153.2	189.6	247.4	273.8	285.1
82.5°	101.7	131.9	168.3	173.3	170.8
85°	57.8	74.1	84.1	82.9	77.9
87.5°	22.6	25.1	18.8	11.3	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)