

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: P474807

Luminaire Tested: **22CZ2-55VHE-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474807
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-55VHE-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,RIBBED LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5564.8 lumens
Efficiency: N/A
Efficacy: 144.5 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

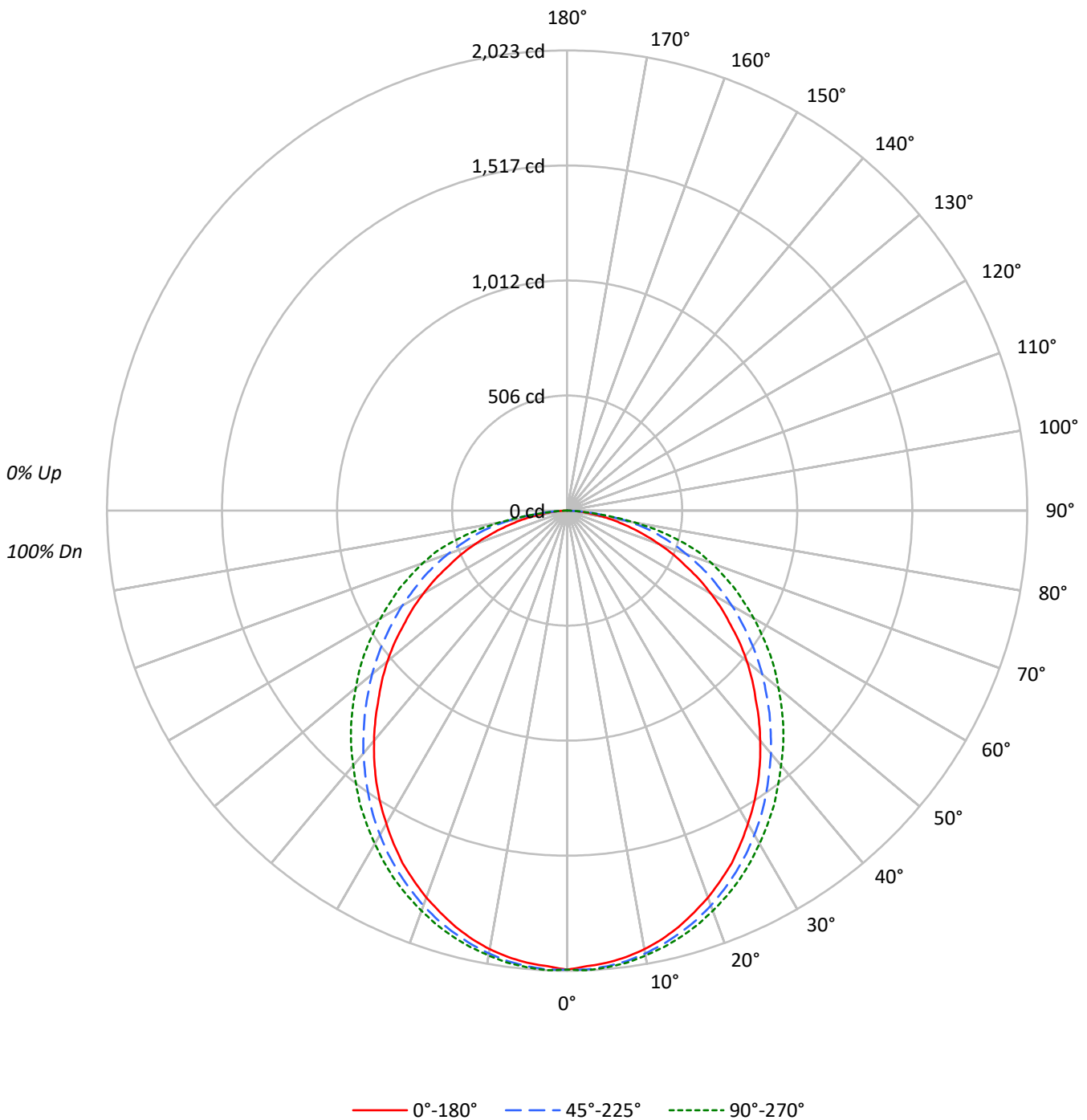
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	85	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	73	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	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5431	5431	5431
5°	5391	5432	5445
10°	5350	5402	5428
15°	5278	5353	5403
20°	5183	5291	5361
25°	5081	5210	5318
30°	4941	5116	5255
35°	4802	5007	5204
40°	4639	4895	5139
45°	4462	4784	5116
50°	4318	4687	5076
55°	4116	4585	5087
60°	3930	4506	5102
65°	3654	4448	5182
70°	3378	4386	5311
75°	3020	4365	5343
80°	2534	4138	4666
85°	1961	2831	2652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	3.4
10°-20°	541.2	9.7
20°-30°	807.0	14.5
30°-40°	952.7	17.1
40°-50°	971.0	17.4
50°-60°	875.6	15.7
60°-70°	688.2	12.4
70°-80°	430.9	7.7
80°-90°	107.4	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°	1538.9	27.7
0°-40°	2491.6	44.8
0°-60°	4338.2	78.0
0°-90°	5564.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5564.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2018	2018	2018	2018	2018	
5°	1996	2000	2011	2016	2016	189
15°	1895	1903	1922	1936	1939	534
25°	1711	1724	1755	1782	1791	787
35°	1462	1481	1524	1566	1584	913
45°	1172	1198	1257	1318	1344	907
55°	877	904	977	1053	1084	787
65°	574	609	699	776	814	572
75°	290	334	420	495	514	308
85°	64	81	92	92	86	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2018.1	2018.1	2018.1	2018.1	2018.1
2.5°	2005.1	2009.8	2019.3	2022.8	2022.8
5°	1995.7	2000.4	2011.0	2015.7	2015.7
7.5°	1980.4	1985.1	1998.1	2004.0	2005.1
10°	1958.1	1964.0	1976.9	1986.3	1986.3
12.5°	1929.9	1935.8	1952.2	1964.0	1965.2
15°	1894.6	1902.8	1921.6	1935.8	1939.3
17.5°	1853.4	1866.4	1887.5	1905.2	1908.7
20°	1809.9	1822.9	1847.6	1867.5	1872.2
22.5°	1761.7	1773.5	1802.9	1827.6	1833.4
25°	1711.1	1724.1	1754.6	1781.7	1791.1
27.5°	1651.2	1666.4	1702.9	1733.5	1742.9
30°	1590.0	1608.8	1646.4	1680.6	1691.1
32.5°	1527.7	1545.3	1587.6	1624.1	1638.2
35°	1461.8	1480.6	1524.1	1566.5	1584.1
37.5°	1392.4	1411.2	1458.3	1506.5	1523.0
40°	1320.7	1343.0	1393.6	1445.3	1463.0
42.5°	1247.8	1271.3	1324.2	1381.8	1405.4
45°	1172.5	1198.4	1257.2	1318.3	1344.2
47.5°	1104.3	1125.5	1186.6	1253.7	1278.4
50°	1031.4	1051.4	1119.6	1186.6	1212.5
52.5°	957.3	976.1	1049.0	1119.6	1151.3
55°	877.3	904.4	977.3	1052.6	1084.3
57.5°	806.8	831.5	906.7	983.2	1013.7
60°	730.3	756.2	837.3	915.0	947.9
62.5°	653.9	682.1	764.4	847.9	878.5
65°	573.9	609.2	698.6	776.2	813.8
67.5°	505.7	539.8	628.0	709.1	742.1
70°	429.3	469.2	557.4	639.8	675.0
72.5°	357.5	397.5	488.1	570.4	605.7
75°	290.5	334.0	419.8	495.1	513.9
77.5°	225.8	267.0	352.8	396.3	416.3
80°	163.5	203.5	267.0	296.4	301.1
82.5°	110.5	144.7	181.1	189.3	184.6
85°	63.5	81.1	91.7	91.7	85.9
87.5°	25.9	25.9	22.3	14.1	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)