

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: P474925

Luminaire Tested: **22CZ2-65VHE-S-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P474925  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-65VHE-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: 6638.5 lumens  
Efficiency: N/A  
Efficacy: 145.3 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

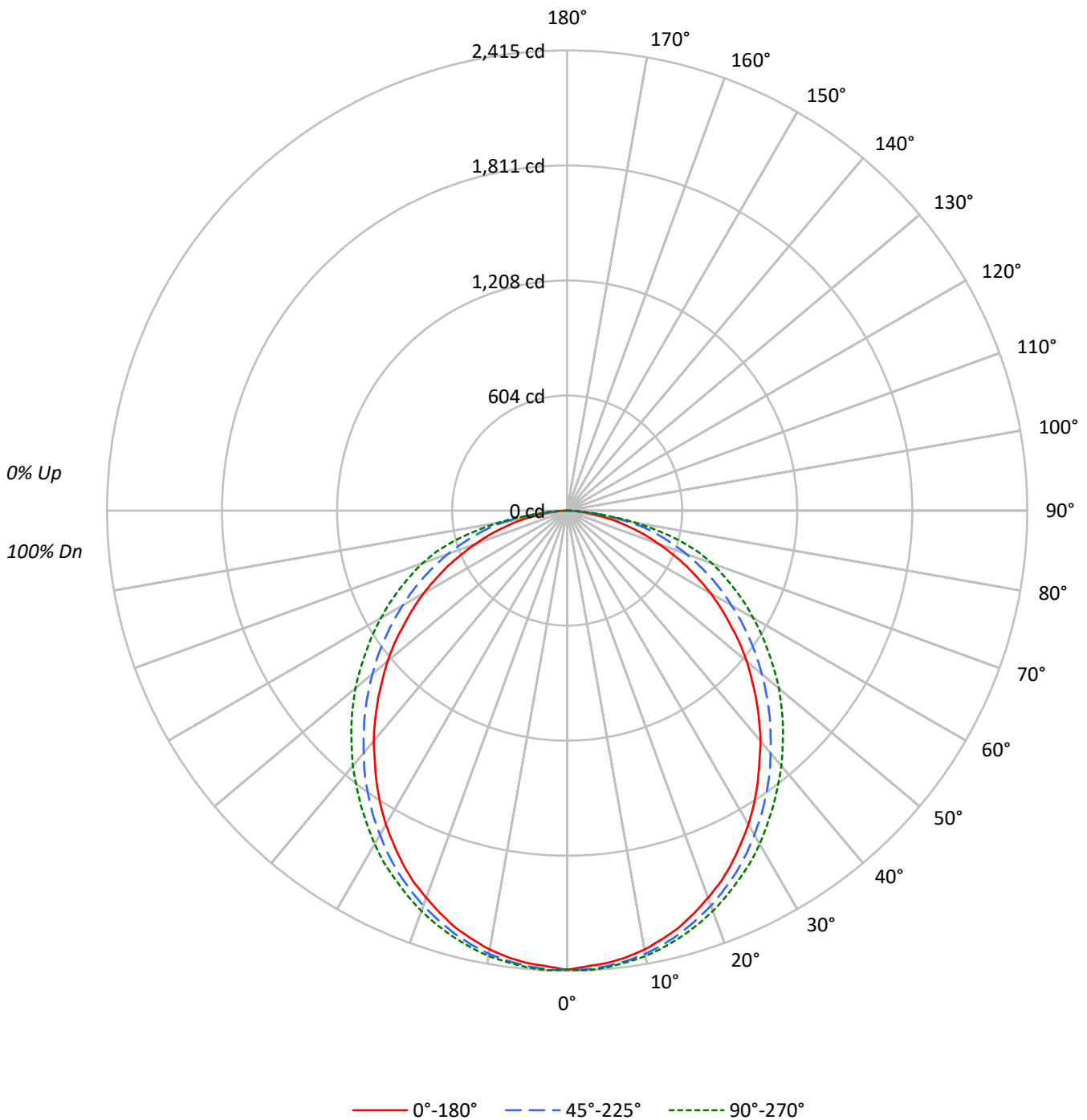
Input Watts (W): 45.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6485	6485	6485
5°	6440	6483	6501
10°	6392	6453	6488
15°	6311	6396	6449
20°	6192	6321	6404
25°	6067	6225	6339
30°	5910	6105	6280
35°	5726	5979	6201
40°	5547	5835	6146
45°	5343	5710	6095
50°	5152	5582	6073
55°	4906	5472	6045
60°	4686	5360	6070
65°	4399	5299	6158
70°	4020	5233	6358
75°	3608	5194	6364
80°	3037	4905	5652
85°	2282	3322	3075



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	3.4
10°-20°	646.4	9.7
20°-30°	963.7	14.5
30°-40°	1137.2	17.1
40°-50°	1158.6	17.5
50°-60°	1044.9	15.7
60°-70°	820.6	12.4
70°-80°	513.0	7.7
80°-90°	126.5	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°	1837.7	27.7
0°-40°	2974.9	44.8
0°-60°	5178.4	78.0
0°-90°	6638.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6638.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2410	2410	2410	2410	2410	
5°	2384	2389	2400	2405	2407	226
15°	2265	2273	2296	2312	2315	638
25°	2044	2055	2096	2127	2135	940
35°	1743	1767	1820	1870	1888	1090
45°	1404	1428	1500	1573	1602	1083
55°	1046	1080	1166	1256	1288	938
65°	691	728	832	925	967	682
75°	347	395	500	585	612	371
85°	74	95	108	106	100	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2409.8	2409.8	2409.8	2409.8	2409.8
2.5°	2393.7	2398.5	2409.8	2414.6	2414.6
5°	2384.1	2388.9	2400.1	2405.0	2406.6
7.5°	2364.8	2371.2	2384.1	2390.5	2390.5
10°	2339.1	2347.1	2361.6	2371.2	2374.4
12.5°	2303.8	2313.4	2332.7	2343.9	2347.1
15°	2265.2	2273.2	2295.7	2311.8	2315.0
17.5°	2215.4	2228.2	2252.3	2273.2	2278.1
20°	2162.4	2176.8	2207.4	2231.5	2236.3
22.5°	2107.8	2119.0	2152.7	2181.7	2188.1
25°	2043.5	2054.7	2096.5	2127.0	2135.1
27.5°	1972.8	1992.1	2033.9	2069.2	2082.1
30°	1902.1	1921.4	1964.8	2006.5	2021.0
32.5°	1825.0	1845.9	1895.7	1939.1	1953.5
35°	1743.1	1767.2	1820.2	1870.0	1887.7
37.5°	1657.9	1685.2	1744.7	1797.7	1817.0
40°	1579.2	1598.5	1661.1	1722.2	1749.5
42.5°	1490.9	1516.6	1579.2	1648.3	1674.0
45°	1404.1	1428.2	1500.5	1572.8	1601.7
47.5°	1314.1	1344.7	1417.0	1497.3	1526.2
50°	1230.6	1256.3	1333.4	1418.6	1450.7
52.5°	1140.6	1167.9	1251.5	1339.8	1368.8
55°	1045.8	1079.6	1166.3	1256.3	1288.4
57.5°	959.1	991.2	1082.8	1176.0	1209.7
60°	870.7	902.9	996.0	1090.8	1127.8
62.5°	777.6	814.5	915.7	1007.3	1049.1
65°	690.8	727.8	832.2	925.4	967.1
67.5°	599.2	642.6	747.0	845.0	886.8
70°	510.9	562.3	665.1	761.5	808.1
72.5°	432.2	473.9	581.6	682.8	721.3
75°	347.0	395.2	499.6	584.8	612.1
77.5°	274.7	316.5	416.1	472.3	490.0
80°	196.0	242.6	316.5	350.2	364.7
82.5°	130.1	168.7	215.3	221.7	218.5
85°	73.9	94.8	107.6	106.0	99.6
87.5°	28.9	32.1	24.1	14.5	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)