

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: P474811

Luminaire Tested: **22CZ2-75VHE-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P474811  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-75VHE-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**

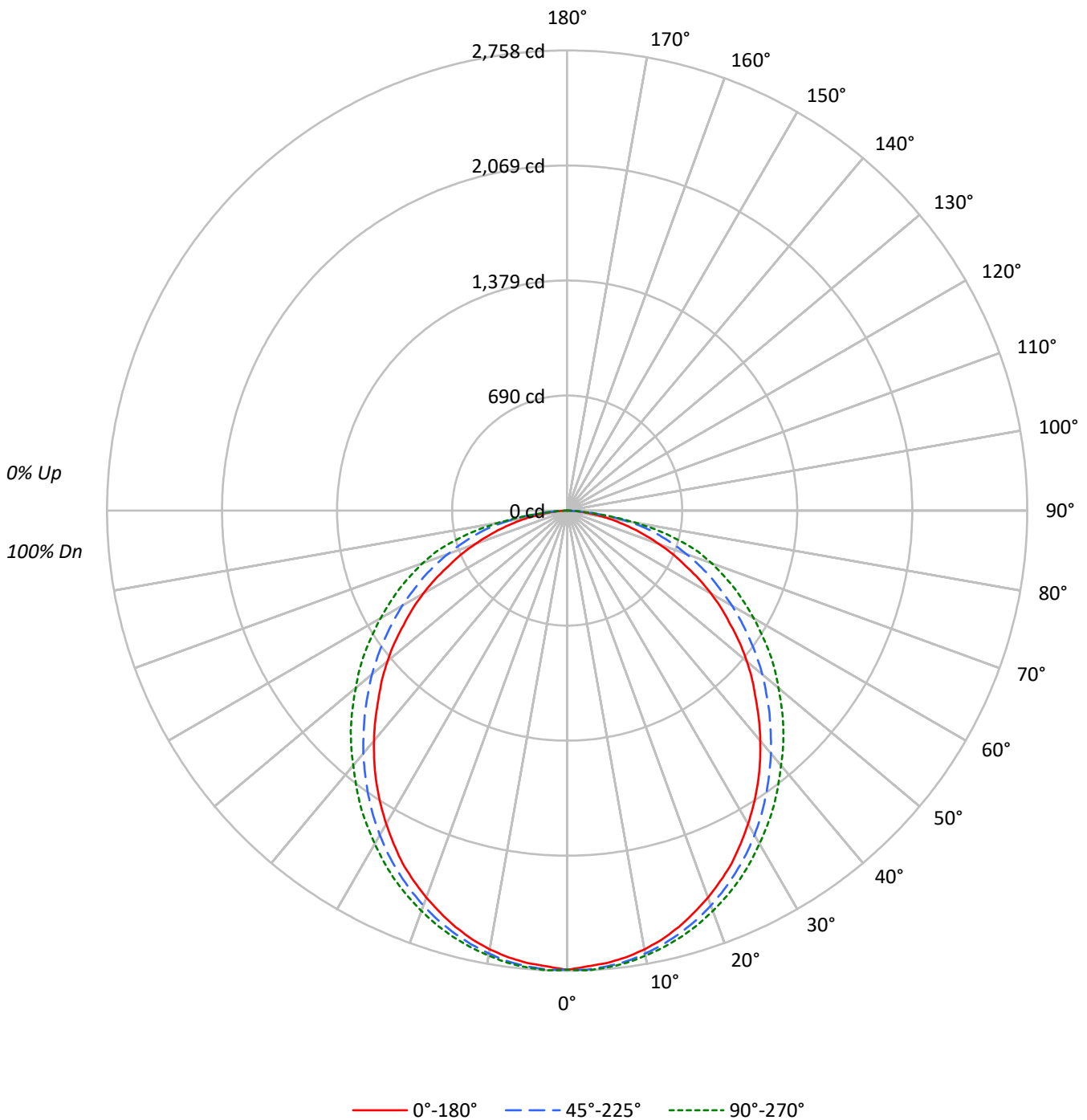
Lumens per Lamp: N/A  
Luminaire Lumens: 7588.7 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



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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°	7406	7406	7406
5°	7352	7408	7425
10°	7297	7367	7402
15°	7198	7300	7368
20°	7068	7215	7312
25°	6929	7105	7252
30°	6738	6977	7166
35°	6549	6828	7097
40°	6327	6676	7008
45°	6085	6524	6976
50°	5888	6392	6922
55°	5613	6252	6937
60°	5360	6146	6957
65°	4983	6066	7067
70°	4606	5981	7243
75°	4118	5952	7286
80°	3454	5642	6363
85°	2674	3863	3616



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.0	3.4
10°-20°	738.1	9.7
20°-30°	1100.5	14.5
30°-40°	1299.2	17.1
40°-50°	1324.1	17.4
50°-60°	1194.1	15.7
60°-70°	938.5	12.4
70°-80°	587.6	7.7
80°-90°	146.5	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°	2098.6	27.7
0°-40°	3397.8	44.8
0°-60°	5916.0	78.0
0°-90°	7588.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7588.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2752	2752	2752	2752	2752	
5°	2722	2728	2742	2749	2749	258
15°	2584	2595	2620	2640	2645	728
25°	2334	2351	2393	2430	2442	1073
35°	1994	2019	2078	2136	2160	1246
45°	1599	1634	1714	1798	1833	1237
55°	1196	1233	1333	1435	1479	1074
65°	783	831	953	1058	1110	780
75°	396	456	572	675	701	421
85°	87	111	125	125	117	104
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2752.1	2752.1	2752.1	2752.1	2752.1
2.5°	2734.4	2740.8	2753.7	2758.5	2758.5
5°	2721.6	2728.0	2742.4	2748.8	2748.8
7.5°	2700.7	2707.1	2724.8	2732.8	2734.4
10°	2670.3	2678.3	2695.9	2708.8	2708.8
12.5°	2631.8	2639.8	2662.2	2678.3	2679.9
15°	2583.7	2594.9	2620.5	2639.8	2644.6
17.5°	2527.5	2545.2	2574.0	2598.1	2602.9
20°	2468.2	2485.8	2519.5	2546.8	2553.2
22.5°	2402.4	2418.5	2458.6	2492.2	2500.3
25°	2333.5	2351.1	2392.8	2429.7	2442.5
27.5°	2251.7	2272.5	2322.2	2363.9	2376.8
30°	2168.3	2193.9	2245.3	2291.8	2306.2
32.5°	2083.3	2107.3	2165.1	2214.8	2234.0
35°	1993.5	2019.1	2078.5	2136.2	2160.3
37.5°	1898.9	1924.5	1988.7	2054.4	2076.9
40°	1801.0	1831.5	1900.5	1971.0	1995.1
42.5°	1701.6	1733.7	1805.8	1884.4	1916.5
45°	1599.0	1634.2	1714.4	1797.8	1833.1
47.5°	1505.9	1534.8	1618.2	1709.6	1743.3
50°	1406.5	1433.8	1526.8	1618.2	1653.5
52.5°	1305.5	1331.1	1430.6	1526.8	1570.1
55°	1196.4	1233.3	1332.7	1435.4	1478.7
57.5°	1100.2	1133.9	1236.5	1340.7	1382.4
60°	995.9	1031.2	1141.9	1247.7	1292.6
62.5°	891.7	930.2	1042.4	1156.3	1198.0
65°	782.6	830.7	952.6	1058.5	1109.8
67.5°	689.6	736.1	856.4	967.1	1012.0
70°	585.4	639.9	760.2	872.4	920.6
72.5°	487.5	542.1	665.6	777.8	825.9
75°	396.1	455.5	572.5	675.2	700.8
77.5°	307.9	364.1	481.1	540.5	567.7
80°	222.9	277.5	364.1	404.1	410.6
82.5°	150.8	197.3	247.0	258.2	251.8
85°	86.6	110.7	125.1	125.1	117.1
87.5°	35.3	35.3	30.5	19.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)