

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: P475275

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475275
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-SQR-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SQUARE LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7209.8 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

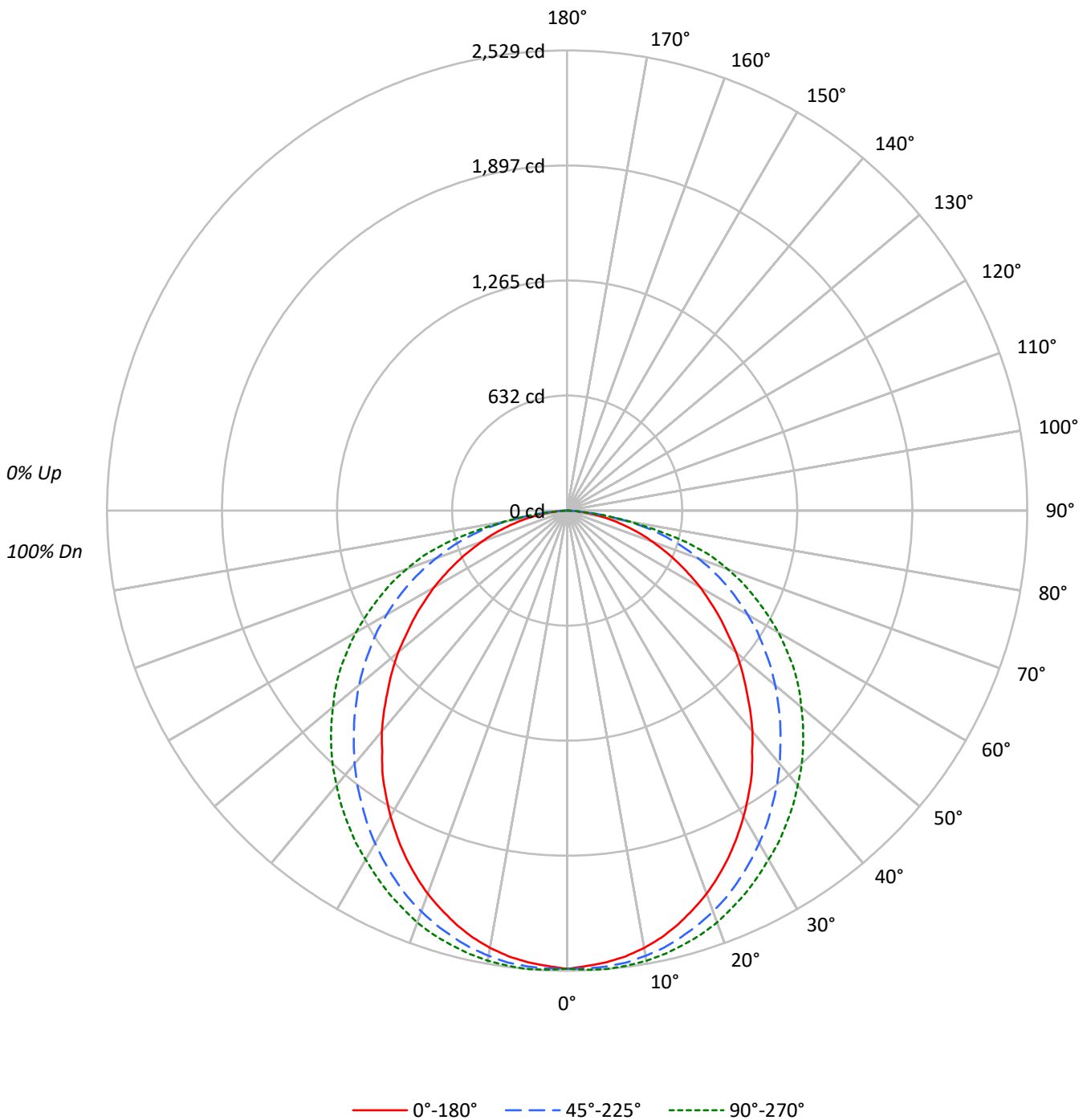
Input Watts (W): 55.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6777	6777	6777
5°	6729	6794	6831
10°	6667	6788	6863
15°	6559	6759	6883
20°	6418	6713	6899
25°	6239	6644	6888
30°	6029	6561	6880
35°	5812	6463	6902
40°	5565	6384	6925
45°	5300	6303	6980
50°	5071	6246	7034
55°	4800	6196	7145
60°	4549	6171	7220
65°	4248	6122	7277
70°	3902	6030	7376
75°	3524	5870	7114
80°	3022	5199	5357
85°	2433	3063	2433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	3.3
10°-20°	682.7	9.5
20°-30°	1025.3	14.2
30°-40°	1222.8	17.0
40°-50°	1264.3	17.5
50°-60°	1162.4	16.1
60°-70°	925.3	12.8
70°-80°	565.4	7.8
80°-90°	122.9	1.7
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°	1946.8	27.0
0°-40°	3169.6	44.0
0°-60°	5596.2	77.6
0°-90°	7209.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7209.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2518	2518	2518	2518	2518	
5°	2491	2498	2515	2526	2529	236
15°	2354	2382	2426	2460	2471	663
25°	2101	2152	2238	2300	2320	966
35°	1769	1844	1968	2070	2101	1104
45°	1393	1492	1656	1790	1834	1077
55°	1023	1136	1321	1471	1523	915
65°	667	780	961	1095	1143	661
75°	339	438	565	664	684	361
85°	79	96	99	86	79	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2518.4	2518.4	2518.4	2518.4	2518.4
2.5°	2504.8	2508.2	2518.4	2525.6	2525.6
5°	2491.2	2498.0	2515.0	2525.6	2529.0
7.5°	2470.7	2480.9	2504.8	2518.4	2522.2
10°	2440.0	2453.7	2484.3	2504.8	2511.6
12.5°	2402.2	2422.6	2460.5	2487.7	2494.6
15°	2354.5	2381.7	2426.0	2460.5	2470.7
17.5°	2299.6	2333.6	2388.5	2429.8	2443.4
20°	2241.2	2275.7	2344.2	2391.9	2409.0
22.5°	2173.1	2217.4	2296.2	2351.1	2364.7
25°	2101.1	2152.3	2237.8	2299.6	2320.0
27.5°	2022.4	2084.1	2176.5	2251.8	2268.9
30°	1940.2	2005.3	2111.4	2193.5	2214.0
32.5°	1854.6	1930.0	2042.8	2135.2	2162.9
35°	1769.1	1844.4	1967.5	2070.5	2101.1
37.5°	1669.9	1758.8	1895.9	2001.9	2039.4
40°	1584.3	1669.9	1817.2	1933.4	1971.3
42.5°	1488.5	1580.9	1735.0	1861.5	1906.1
45°	1392.7	1491.9	1656.2	1789.9	1834.2
47.5°	1303.7	1402.9	1574.1	1714.5	1758.8
50°	1211.3	1313.9	1491.9	1635.8	1680.1
52.5°	1112.1	1224.9	1409.7	1553.6	1605.1
55°	1023.1	1136.0	1320.7	1471.4	1522.9
57.5°	930.7	1047.0	1239.0	1382.5	1430.6
60°	845.2	958.0	1146.6	1286.7	1341.6
62.5°	752.8	869.0	1053.8	1190.9	1242.4
65°	667.2	780.4	961.4	1095.1	1142.8
67.5°	581.6	694.8	865.6	992.4	1047.0
70°	496.0	609.3	766.4	889.8	937.5
72.5°	421.1	520.3	670.6	783.8	828.1
75°	338.9	438.1	564.6	663.8	684.2
77.5°	263.5	352.5	458.5	502.9	510.0
80°	195.0	263.5	335.5	345.7	345.7
82.5°	129.9	181.4	208.6	212.0	208.6
85°	78.8	95.8	99.2	85.6	78.8
87.5°	27.3	27.3	17.0	10.2	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)