

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: P475246

Luminaire Tested: **22CZ2-75VHE-SQR-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475246
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-L830-CD1-U
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SQUARE LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6957.5 lumens
Efficiency: N/A
Efficacy: 126.0 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

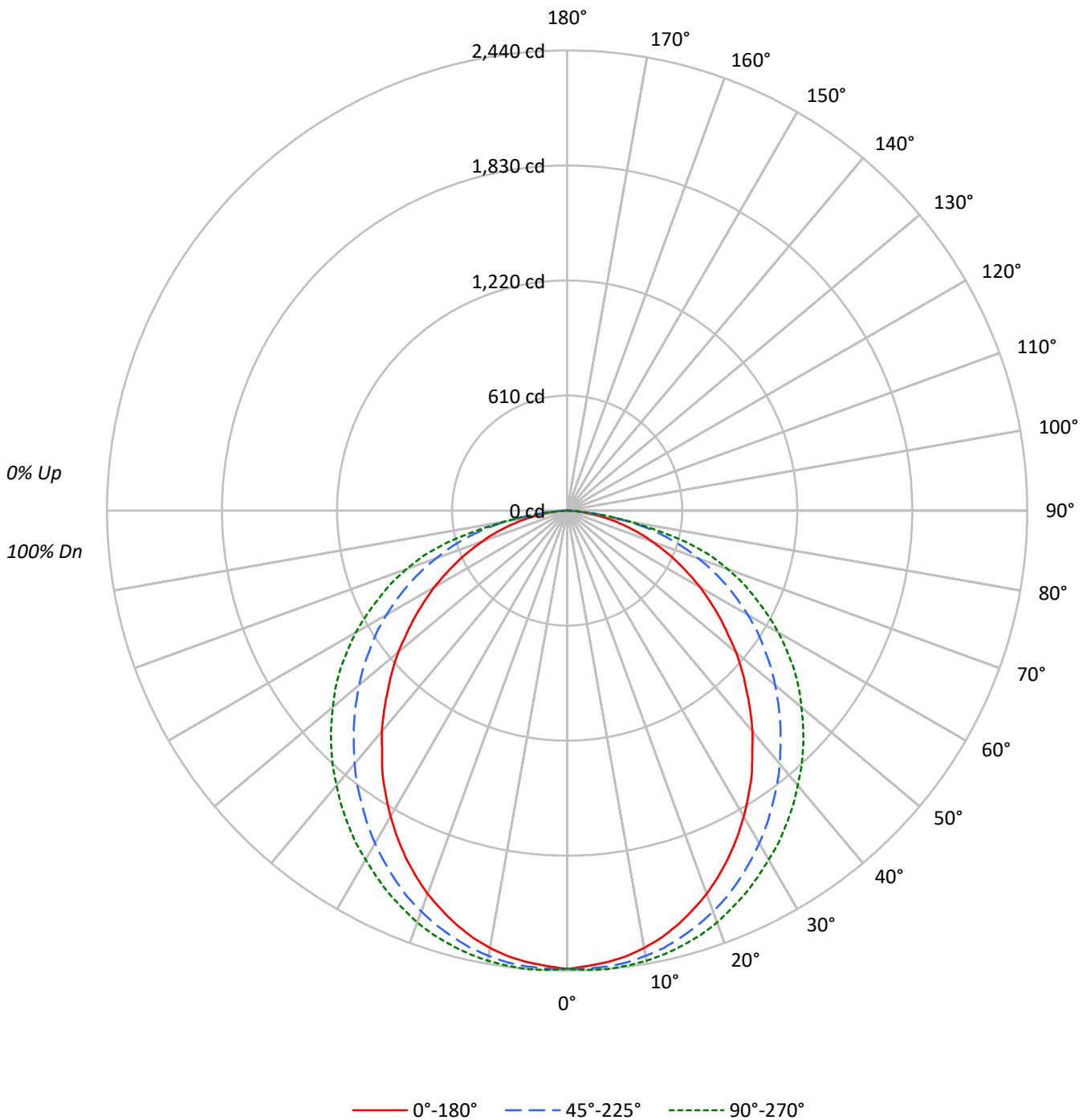
Input Watts (W): 55.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6540	6540	6540
5°	6494	6556	6592
10°	6434	6551	6623
15°	6330	6522	6642
20°	6194	6478	6657
25°	6020	6412	6647
30°	5818	6331	6639
35°	5608	6237	6661
40°	5370	6160	6682
45°	5114	6083	6736
50°	4894	6027	6787
55°	4632	5979	6895
60°	4390	5955	6967
65°	4099	5908	7022
70°	3766	5819	7118
75°	3400	5664	6865
80°	2916	5016	5170
85°	2347	2955	2347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	3.3
10°-20°	658.8	9.5
20°-30°	989.4	14.2
30°-40°	1180.0	17.0
40°-50°	1220.0	17.5
50°-60°	1121.7	16.1
60°-70°	893.0	12.8
70°-80°	545.6	7.8
80°-90°	118.5	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°	1878.6	27.0
0°-40°	3058.7	44.0
0°-60°	5400.4	77.6
0°-90°	6957.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6957.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2430	2430	2430	2430	2430	
5°	2404	2410	2427	2437	2440	228
15°	2272	2298	2341	2374	2384	640
25°	2028	2077	2160	2219	2239	933
35°	1707	1780	1899	1998	2028	1065
45°	1344	1440	1598	1727	1770	1039
55°	987	1096	1274	1420	1470	883
65°	644	753	928	1057	1103	638
75°	327	423	545	640	660	348
85°	76	92	96	83	76	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2430.3	2430.3	2430.3	2430.3	2430.3
2.5°	2417.1	2420.4	2430.3	2437.2	2437.2
5°	2404.0	2410.5	2427.0	2437.2	2440.5
7.5°	2384.2	2394.1	2417.1	2430.3	2433.9
10°	2354.6	2367.8	2397.4	2417.1	2423.7
12.5°	2318.1	2337.8	2374.4	2400.7	2407.3
15°	2272.1	2298.4	2341.1	2374.4	2384.2
17.5°	2219.1	2252.0	2304.9	2344.8	2357.9
20°	2162.8	2196.1	2262.2	2308.2	2324.7
22.5°	2097.0	2139.8	2215.8	2268.8	2281.9
25°	2027.6	2076.9	2159.5	2219.1	2238.8
27.5°	1951.6	2011.2	2100.3	2173.0	2189.5
30°	1872.3	1935.2	2037.5	2116.8	2136.5
32.5°	1789.7	1862.4	1971.3	2060.5	2087.2
35°	1707.1	1779.9	1898.6	1998.0	2027.6
37.5°	1611.4	1697.3	1829.6	1931.9	1968.0
40°	1528.8	1611.4	1753.6	1865.7	1902.3
42.5°	1436.4	1525.5	1674.3	1796.3	1839.4
45°	1343.9	1439.7	1598.3	1727.2	1770.0
47.5°	1258.1	1353.8	1519.0	1654.5	1697.3
50°	1168.9	1267.9	1439.7	1578.5	1621.3
52.5°	1073.2	1182.1	1360.4	1499.2	1548.9
55°	987.3	1096.2	1274.5	1419.9	1469.6
57.5°	898.2	1010.3	1195.6	1334.1	1380.5
60°	815.6	924.5	1106.4	1241.6	1294.6
62.5°	726.4	838.6	1016.9	1149.2	1198.9
65°	643.8	753.1	927.8	1056.7	1102.8
67.5°	561.3	670.5	835.3	957.7	1010.3
70°	478.7	587.9	739.6	858.7	904.7
72.5°	406.3	502.1	647.1	756.4	799.1
75°	327.0	422.8	544.8	640.5	660.3
77.5°	254.3	340.2	442.5	485.3	492.2
80°	188.2	254.3	323.7	333.6	333.6
82.5°	125.3	175.0	201.3	204.6	201.3
85°	76.0	92.4	95.7	82.6	76.0
87.5°	26.3	26.3	16.4	9.9	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)