

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: P475043

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

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475043  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-75VHE-RDP-UNV-L835-CD1-U  
Description: 2'X2' TROFFER LED MODULE, VERY HIGH EFFICIENCY,SMOOTH LENS W/ RDP  
INSERT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5084.7 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

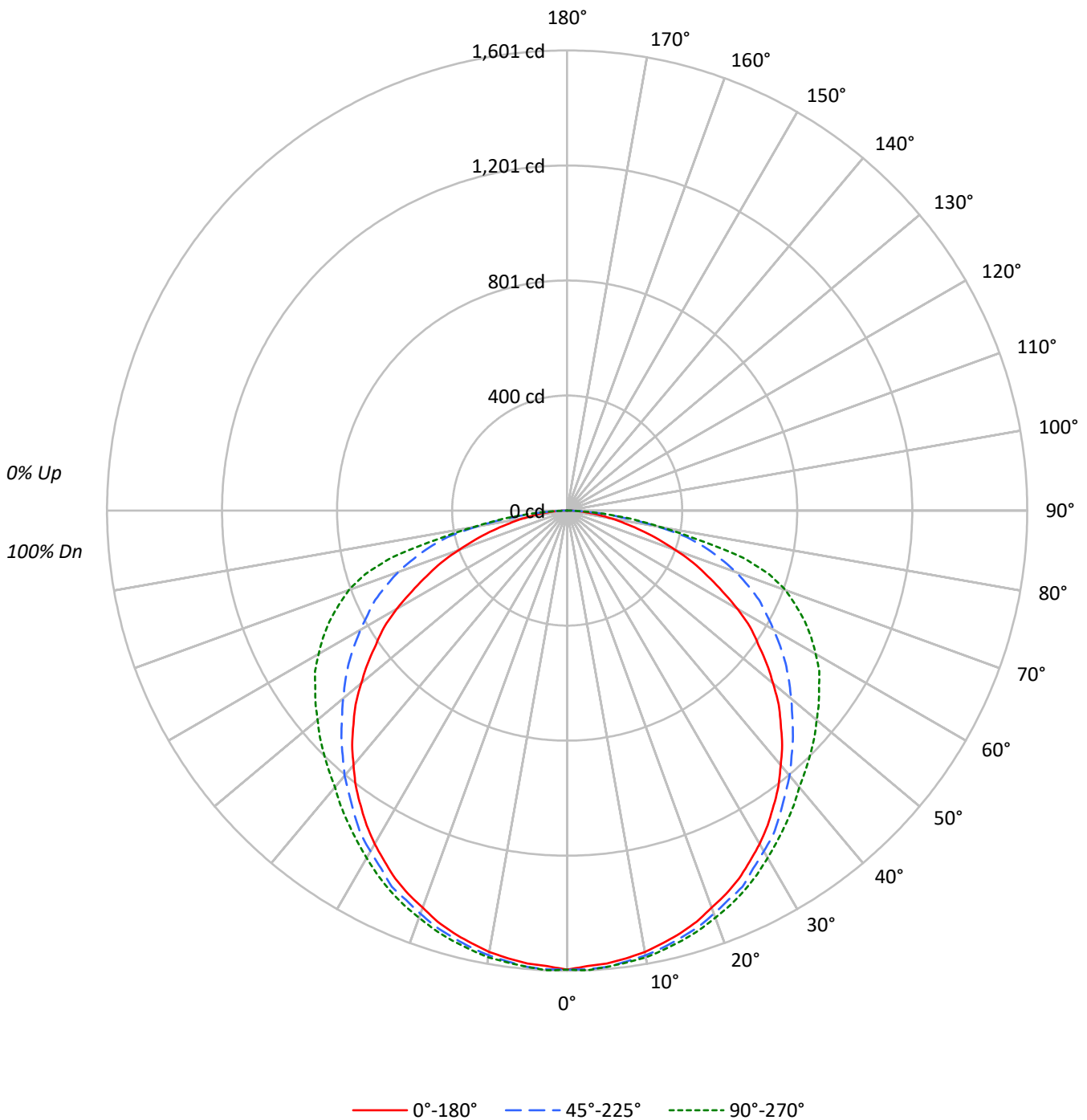
Input Watts (W): 55.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4298	4298	4298
5°	4274	4304	4304
10°	4262	4293	4313
15°	4241	4283	4314
20°	4210	4273	4317
25°	4198	4287	4332
30°	4161	4254	4336
35°	4116	4239	4363
40°	4060	4230	4415
45°	4000	4228	4555
50°	3915	4259	4744
55°	3809	4352	5019
60°	3684	4469	5375
65°	3429	4693	5813
70°	3150	4916	6357
75°	2764	5170	6573
80°	2379	4925	5160
85°	2078	3582	3924



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.1	3.0
10°-20°	433.8	8.5
20°-30°	661.8	13.0
30°-40°	808.1	15.9
40°-50°	864.0	17.0
50°-60°	834.0	16.4
60°-70°	717.9	14.1
70°-80°	485.8	9.6
80°-90°	128.2	2.5
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°	1246.7	24.5
0°-40°	2054.8	40.4
0°-60°	3752.8	73.8
0°-90°	5084.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5084.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1582	1586	1593	1593	1593	150
15°	1522	1526	1537	1545	1548	429
25°	1414	1421	1444	1451	1459	651
35°	1253	1264	1290	1316	1328	784
45°	1051	1070	1111	1167	1197	811
55°	812	838	928	1021	1070	727
65°	539	591	737	853	913	536
75°	266	352	497	598	632	285
85°	67	94	116	120	127	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1597.1	1597.1	1597.1	1597.1	1597.1
2.5°	1586.0	1589.7	1597.1	1597.1	1600.8
5°	1582.3	1586.0	1593.4	1593.4	1593.4
7.5°	1571.1	1574.8	1582.3	1586.0	1586.0
10°	1559.6	1563.7	1571.1	1574.8	1578.5
12.5°	1541.0	1544.7	1555.9	1563.7	1563.7
15°	1522.4	1526.1	1537.3	1544.7	1548.4
17.5°	1499.7	1507.5	1518.7	1526.1	1529.8
20°	1470.0	1477.4	1492.3	1503.8	1507.5
22.5°	1444.0	1451.4	1466.3	1477.4	1484.9
25°	1413.9	1421.3	1444.0	1451.4	1458.9
27.5°	1376.3	1384.1	1402.7	1417.6	1428.8
30°	1339.2	1346.6	1368.9	1387.9	1395.3
32.5°	1297.9	1309.1	1335.5	1350.3	1361.5
35°	1252.9	1264.1	1290.5	1316.5	1328.0
37.5°	1208.3	1219.5	1245.5	1279.3	1294.2
40°	1155.9	1170.8	1204.3	1249.2	1256.7
42.5°	1107.2	1125.8	1155.9	1208.3	1226.9
45°	1051.1	1069.7	1111.0	1167.1	1196.8
47.5°	998.7	1017.3	1062.3	1129.5	1167.1
50°	935.2	961.2	1017.3	1096.1	1133.3
52.5°	875.3	897.6	972.7	1058.6	1103.5
55°	811.8	837.8	927.7	1021.0	1069.7
57.5°	755.6	777.9	879.0	983.8	1040.0
60°	684.6	714.4	830.3	942.6	998.7
62.5°	609.6	654.5	781.7	897.6	957.5
65°	538.6	591.0	737.0	852.6	912.9
67.5°	475.0	531.1	680.9	804.3	860.4
70°	400.3	471.3	624.8	744.5	808.0
72.5°	333.0	411.5	561.2	680.9	737.0
75°	265.8	351.6	497.3	598.4	632.2
77.5°	205.5	288.1	426.3	456.4	460.1
80°	153.5	228.2	317.8	321.5	333.0
82.5°	104.8	160.9	205.5	224.5	228.2
85°	67.3	93.7	116.0	119.7	127.1
87.5°	30.1	33.8	41.3	37.5	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)