

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: P475027

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475027  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-20HE-RDP-UNV-L835-CD1-U  
Description: 2'X2' TROFFER LED MODULE, 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: 1360.1 lumens  
Efficiency: N/A  
Efficacy: 90.7 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

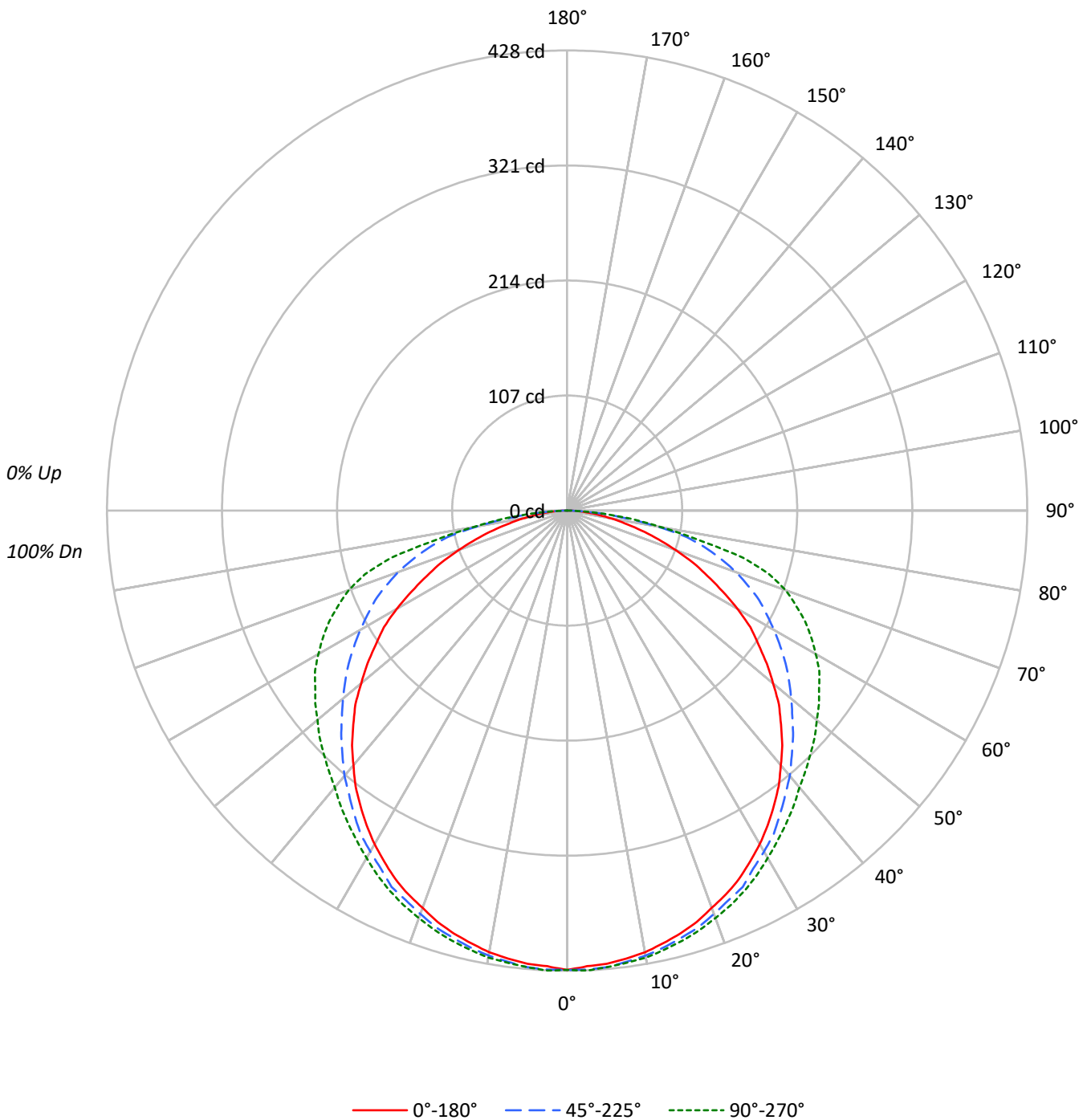
Input Watts (W): 15  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1150	1150	1150
5°	1143	1151	1151
10°	1140	1148	1154
15°	1134	1146	1154
20°	1126	1143	1155
25°	1123	1147	1159
30°	1113	1138	1160
35°	1101	1134	1167
40°	1086	1131	1181
45°	1070	1131	1218
50°	1047	1139	1269
55°	1019	1164	1342
60°	985	1195	1438
65°	918	1256	1555
70°	843	1315	1700
75°	739	1383	1758
80°	637	1317	1381
85°	556	957	1050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.4	3.0
10°-20°	116.0	8.5
20°-30°	177.0	13.0
30°-40°	216.2	15.9
40°-50°	231.1	17.0
50°-60°	223.1	16.4
60°-70°	192.1	14.1
70°-80°	129.9	9.6
80°-90°	34.3	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°	333.5	24.5
0°-40°	549.6	40.4
0°-60°	1003.8	73.8
0°-90°	1360.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1360.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	427	427	427	427	427	
5°	423	424	426	426	426	40
15°	407	408	411	413	414	115
25°	378	380	386	388	390	174
35°	335	338	345	352	355	210
45°	281	286	297	312	320	217
55°	217	224	248	273	286	195
65°	144	158	197	228	244	143
75°	71	94	133	160	169	76
85°	18	25	31	32	34	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	427.2	427.2	427.2	427.2	427.2
2.5°	424.2	425.2	427.2	427.2	428.2
5°	423.2	424.2	426.2	426.2	426.2
7.5°	420.3	421.3	423.2	424.2	424.2
10°	417.2	418.3	420.3	421.3	422.2
12.5°	412.2	413.2	416.2	418.3	418.3
15°	407.2	408.2	411.2	413.2	414.2
17.5°	401.2	403.3	406.2	408.2	409.2
20°	393.2	395.2	399.2	402.3	403.3
22.5°	386.3	388.2	392.2	395.2	397.2
25°	378.2	380.2	386.3	388.2	390.2
27.5°	368.2	370.2	375.2	379.2	382.2
30°	358.2	360.2	366.2	371.2	373.2
32.5°	347.2	350.2	357.2	361.2	364.2
35°	335.2	338.1	345.2	352.2	355.2
37.5°	323.2	326.2	333.2	342.2	346.2
40°	309.2	313.2	322.1	334.2	336.1
42.5°	296.2	301.2	309.2	323.2	328.2
45°	281.2	286.1	297.2	312.2	320.1
47.5°	267.1	272.1	284.1	302.1	312.2
50°	250.1	257.1	272.1	293.2	303.1
52.5°	234.1	240.1	260.2	283.2	295.2
55°	217.1	224.1	248.2	273.1	286.1
57.5°	202.1	208.1	235.1	263.2	278.2
60°	183.1	191.1	222.1	252.1	267.1
62.5°	163.1	175.1	209.1	240.1	256.1
65°	144.1	158.1	197.2	228.1	244.2
67.5°	127.1	142.1	182.1	215.2	230.2
70°	107.1	126.1	167.1	199.1	216.1
72.5°	89.1	110.1	150.1	182.1	197.2
75°	71.1	94.1	133.0	160.1	169.1
77.5°	55.0	77.1	114.0	122.1	123.1
80°	41.1	61.0	85.0	86.0	89.1
82.5°	28.0	43.0	55.0	60.1	61.0
85°	18.0	25.1	31.0	32.0	34.0
87.5°	8.1	9.0	11.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)