

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: P475056

Luminaire Tested: **22CZ2-20HE-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475056
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-L840-CD1-U
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY,SMOOTH LENS W/ RDP INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1386.0 lumens
Efficiency: N/A
Efficacy: 92.4 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

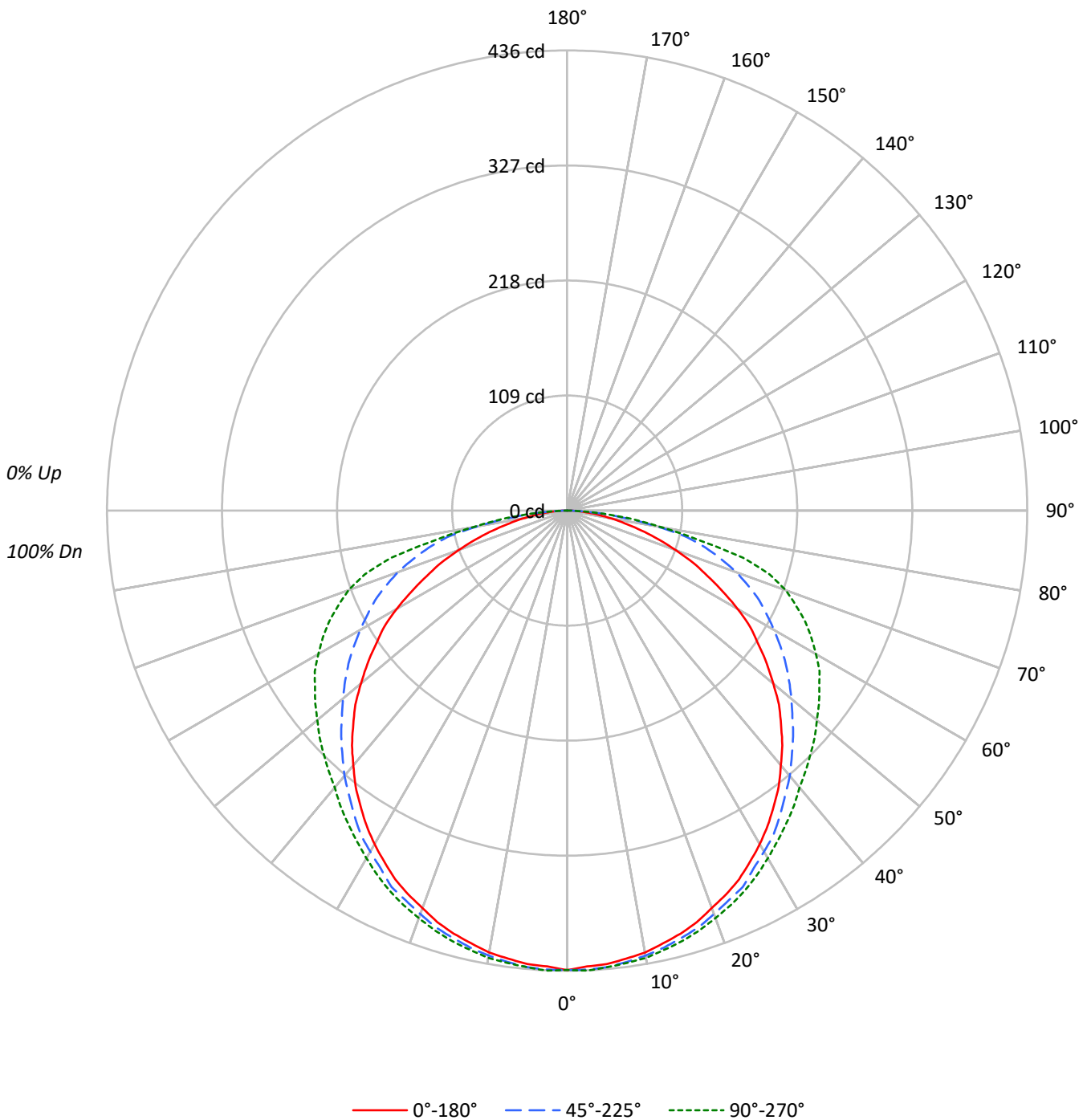
Input Watts (W): 15
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1171	1171	1171
5°	1165	1173	1173
10°	1162	1170	1176
15°	1156	1167	1176
20°	1147	1165	1177
25°	1144	1169	1181
30°	1134	1159	1182
35°	1122	1156	1189
40°	1107	1153	1203
45°	1090	1152	1241
50°	1067	1161	1293
55°	1038	1187	1368
60°	1004	1218	1465
65°	935	1279	1584
70°	858	1340	1733
75°	753	1410	1791
80°	648	1342	1407
85°	565	976	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	3.0
10°-20°	118.2	8.5
20°-30°	180.4	13.0
30°-40°	220.3	15.9
40°-50°	235.5	17.0
50°-60°	227.3	16.4
60°-70°	195.7	14.1
70°-80°	132.4	9.6
80°-90°	34.9	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°	339.8	24.5
0°-40°	560.1	40.4
0°-60°	1022.9	73.8
0°-90°	1386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	435	435	435	435	435	
5°	431	432	434	434	434	41
15°	415	416	419	421	422	117
25°	385	387	394	396	398	177
35°	342	345	352	359	362	214
45°	286	292	303	318	326	221
55°	221	228	253	278	292	198
65°	147	161	201	232	249	146
75°	72	96	136	163	172	78
85°	18	26	32	33	35	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	435.3	435.3	435.3	435.3	435.3
2.5°	432.3	433.3	435.3	435.3	436.3
5°	431.3	432.3	434.3	434.3	434.3
7.5°	428.2	429.3	431.3	432.3	432.3
10°	425.1	426.2	428.2	429.3	430.3
12.5°	420.0	421.1	424.1	426.2	426.2
15°	415.0	416.0	419.0	421.1	422.1
17.5°	408.8	410.9	414.0	416.0	417.0
20°	400.7	402.7	406.8	409.9	410.9
22.5°	393.6	395.6	399.7	402.7	404.7
25°	385.4	387.4	393.6	395.6	397.6
27.5°	375.2	377.3	382.3	386.4	389.4
30°	365.0	367.1	373.1	378.3	380.3
32.5°	353.8	356.8	364.0	368.1	371.1
35°	341.5	344.6	351.8	358.8	362.0
37.5°	329.4	332.4	339.5	348.7	352.8
40°	315.1	319.1	328.2	340.5	342.5
42.5°	301.8	306.9	315.1	329.4	334.4
45°	286.5	291.6	302.8	318.1	326.2
47.5°	272.2	277.3	289.5	307.9	318.1
50°	254.9	262.0	277.3	298.8	308.9
52.5°	238.6	244.7	265.1	288.5	300.8
55°	221.3	228.4	252.9	278.3	291.6
57.5°	206.0	212.0	239.6	268.2	283.5
60°	186.6	194.7	226.3	256.9	272.2
62.5°	166.2	178.4	213.1	244.7	261.0
65°	146.8	161.1	200.9	232.4	248.8
67.5°	129.5	144.8	185.6	219.2	234.5
70°	109.1	128.5	170.3	202.9	220.3
72.5°	90.8	112.2	153.0	185.6	200.9
75°	72.4	95.8	135.6	163.1	172.3
77.5°	56.0	78.5	116.2	124.4	125.4
80°	41.8	62.2	86.6	87.6	90.8
82.5°	28.6	43.9	56.0	61.2	62.2
85°	18.3	25.5	31.6	32.6	34.6
87.5°	8.2	9.2	11.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)