

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: P475061

Luminaire Tested: **22CZ2-44HE-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475061
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-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: 3118.1 lumens
Efficiency: N/A
Efficacy: 95.1 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

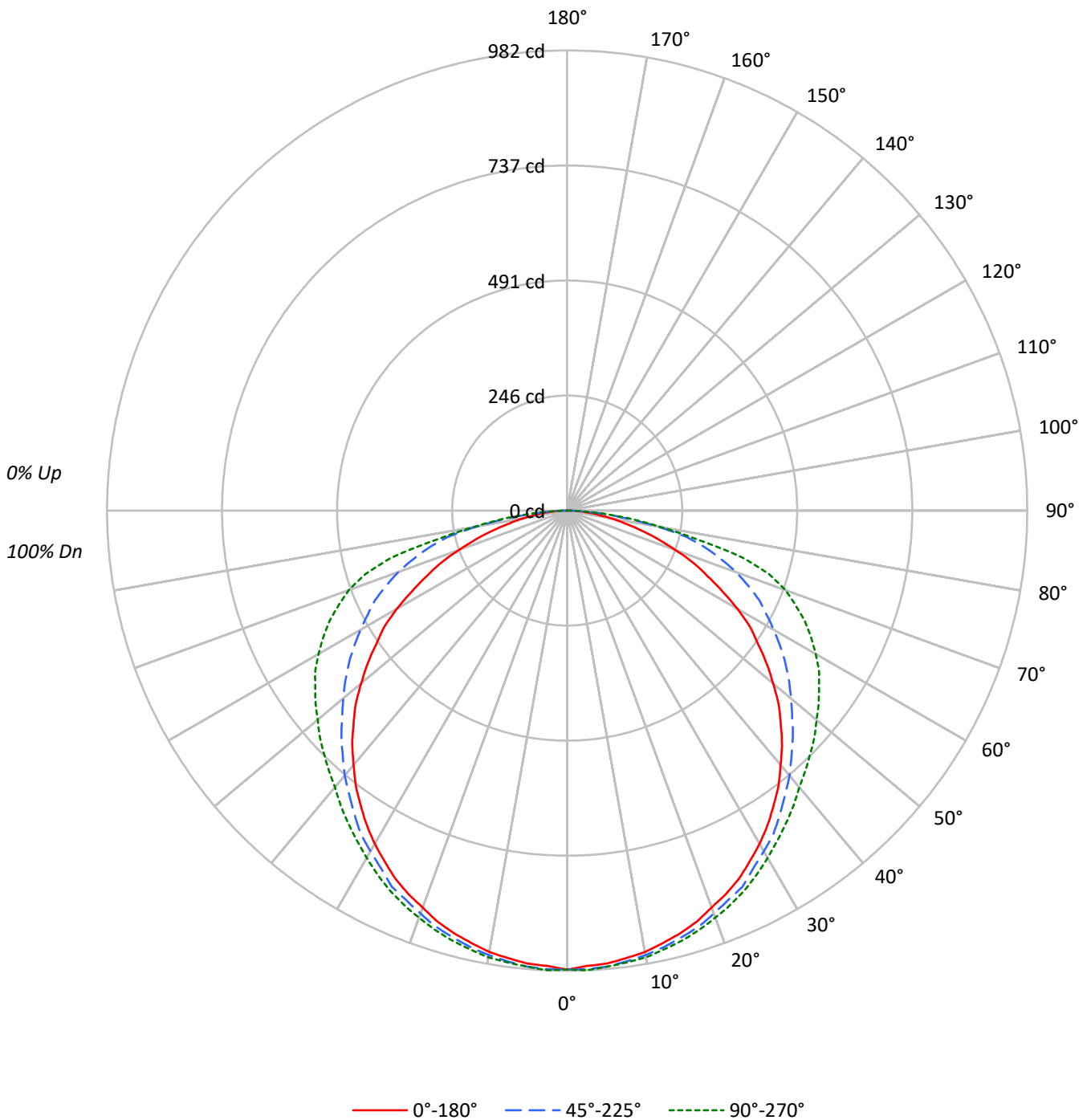
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475061

CATALOG NUMBER: 22CZ2-44HE-RDP-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475061

CATALOG NUMBER: 22CZ2-44HE-RDP-UNV-L840-CD1-U

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°	2636	2636	2636
5°	2621	2639	2639
10°	2613	2632	2645
15°	2601	2626	2645
20°	2581	2621	2647
25°	2574	2629	2656
30°	2552	2609	2659
35°	2524	2600	2675
40°	2490	2594	2707
45°	2453	2593	2793
50°	2401	2611	2909
55°	2335	2669	3078
60°	2259	2740	3296
65°	2103	2878	3564
70°	1932	3014	3899
75°	1695	3171	4031
80°	1458	3020	3164
85°	1275	2195	2408



TEST NUMBER: P475061

CATALOG NUMBER: 22CZ2-44HE-RDP-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	3.0
10°-20°	266.0	8.5
20°-30°	405.9	13.0
30°-40°	495.5	15.9
40°-50°	529.9	17.0
50°-60°	511.4	16.4
60°-70°	440.3	14.1
70°-80°	297.9	9.6
80°-90°	78.6	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°	764.5	24.5
0°-40°	1260.1	40.4
0°-60°	2301.3	73.8
0°-90°	3118.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3118.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	970	973	977	977	977	92
15°	934	936	943	947	950	263
25°	867	872	886	890	895	399
35°	768	775	791	807	814	481
45°	645	656	681	716	734	498
55°	498	514	569	626	656	446
65°	330	362	452	523	560	328
75°	163	216	305	367	388	175
85°	41	57	71	73	78	47
90°	0	0	0	0	0	



TEST NUMBER: P475061

CATALOG NUMBER: 22CZ2-44HE-RDP-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.4	979.4	979.4	979.4	979.4
2.5°	972.6	974.8	979.4	979.4	981.7
5°	970.3	972.6	977.1	977.1	977.1
7.5°	963.4	965.7	970.3	972.6	972.6
10°	956.4	958.9	963.4	965.7	968.0
12.5°	945.0	947.3	954.1	958.9	958.9
15°	933.6	935.9	942.7	947.3	949.5
17.5°	919.7	924.5	931.3	935.9	938.1
20°	901.4	906.0	915.1	922.2	924.5
22.5°	885.5	890.1	899.2	906.0	910.6
25°	867.0	871.6	885.5	890.1	894.6
27.5°	844.0	848.8	860.2	869.3	876.1
30°	821.2	825.8	839.5	851.1	855.6
32.5°	795.9	802.8	818.9	828.1	834.9
35°	768.3	775.2	791.4	807.3	814.4
37.5°	741.0	747.8	763.8	784.5	793.6
40°	708.8	718.0	738.5	766.1	770.6
42.5°	679.0	690.4	708.8	741.0	752.4
45°	644.6	656.0	681.3	715.7	733.9
47.5°	612.4	623.8	651.4	692.7	715.7
50°	573.5	589.4	623.8	672.2	694.9
52.5°	536.8	550.4	596.5	649.1	676.7
55°	497.8	513.7	568.9	626.1	656.0
57.5°	463.4	477.0	539.0	603.3	637.7
60°	419.8	438.1	509.2	578.0	612.4
62.5°	373.8	401.4	479.3	550.4	587.1
65°	330.3	362.4	452.0	522.9	559.8
67.5°	291.3	325.7	417.6	493.2	527.6
70°	245.5	289.0	383.1	456.5	495.5
72.5°	204.2	252.3	344.2	417.6	452.0
75°	163.0	215.6	305.0	367.0	387.7
77.5°	126.0	176.6	261.4	279.9	282.2
80°	94.1	139.9	194.9	197.2	204.2
82.5°	64.3	98.7	126.0	137.7	139.9
85°	41.3	57.4	71.1	73.4	78.0
87.5°	18.5	20.7	25.3	23.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)