

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: P475053

Luminaire Tested: **22CZ2-32-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475053
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-32-RDP-UNV-L840-CD1-U
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

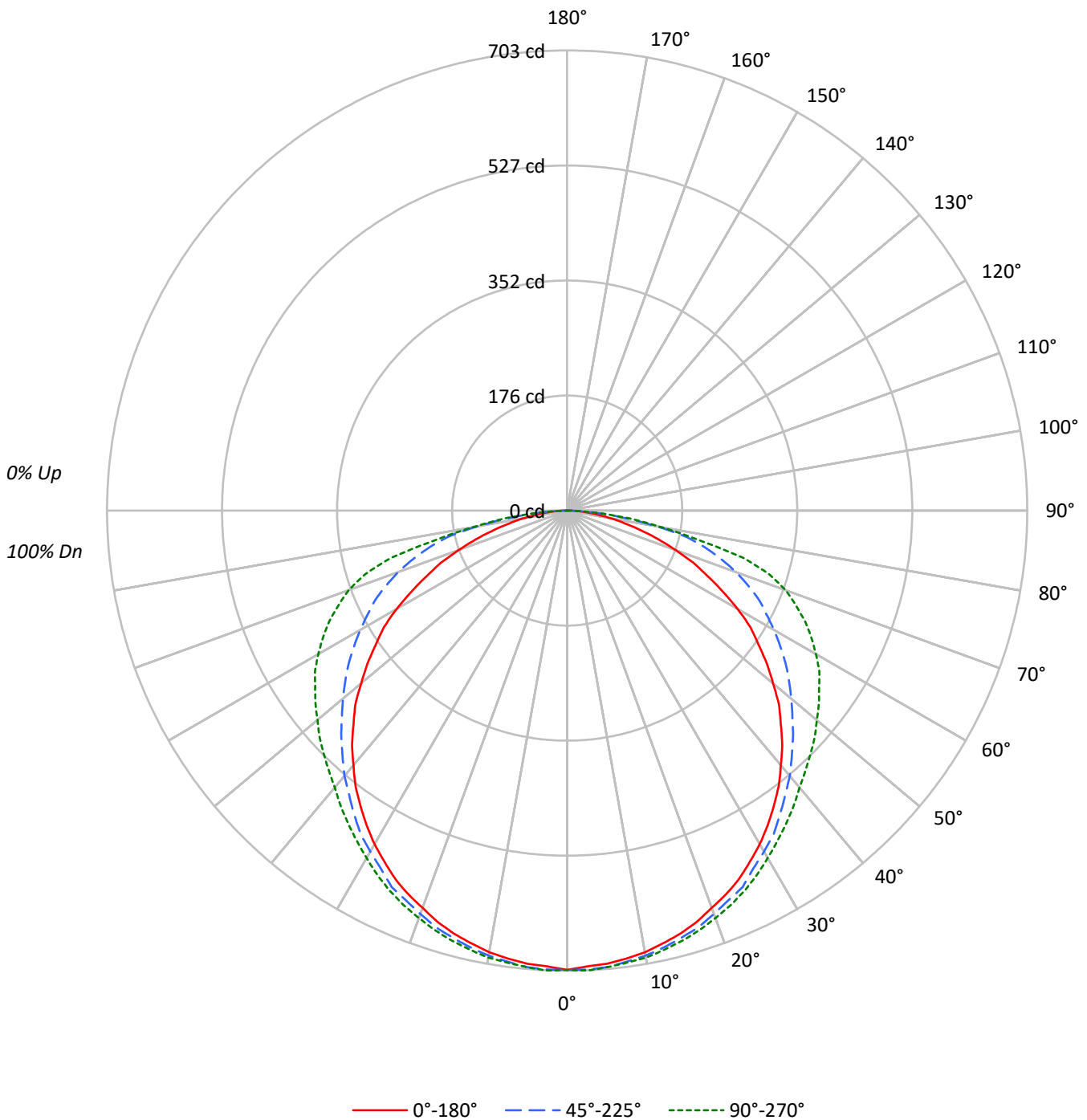
Lumens per Lamp: N/A
Luminaire Lumens: 2234.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.2
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



TEST NUMBER: P475053
CATALOG NUMBER: 22CZ2-32-RDP-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475053

CATALOG NUMBER: 22CZ2-32-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°	1888	1888	1888
5°	1878	1891	1891
10°	1872	1886	1895
15°	1863	1882	1895
20°	1849	1877	1897
25°	1844	1884	1903
30°	1828	1869	1905
35°	1808	1863	1917
40°	1784	1859	1939
45°	1757	1858	2001
50°	1720	1871	2084
55°	1673	1912	2205
60°	1619	1963	2362
65°	1507	2062	2554
70°	1384	2160	2793
75°	1214	2272	2888
80°	1044	2163	2267
85°	914	1572	1723



TEST NUMBER: P475053

CATALOG NUMBER: 22CZ2-32-RDP-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	3.0
10°-20°	190.6	8.5
20°-30°	290.8	13.0
30°-40°	355.0	15.9
40°-50°	379.6	17.0
50°-60°	366.4	16.4
60°-70°	315.4	14.1
70°-80°	213.4	9.6
80°-90°	56.3	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°	547.7	24.5
0°-40°	902.8	40.4
0°-60°	1648.8	73.8
0°-90°	2234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	695	697	700	700	700	66
15°	669	670	675	679	680	189
25°	621	624	634	638	641	286
35°	550	555	567	578	584	344
45°	462	470	488	513	526	356
55°	357	368	408	449	470	320
65°	237	260	324	375	401	235
75°	117	154	218	263	278	125
85°	30	41	51	53	56	33
90°	0	0	0	0	0	



TEST NUMBER: P475053

CATALOG NUMBER: 22CZ2-32-RDP-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	701.7	701.7	701.7	701.7	701.7
2.5°	696.8	698.4	701.7	701.7	703.3
5°	695.2	696.8	700.1	700.1	700.1
7.5°	690.3	691.9	695.2	696.8	696.8
10°	685.2	687.0	690.3	691.9	693.5
12.5°	677.0	678.7	683.6	687.0	687.0
15°	668.9	670.5	675.4	678.7	680.3
17.5°	658.9	662.3	667.2	670.5	672.1
20°	645.8	649.1	655.6	660.7	662.3
22.5°	634.4	637.7	644.2	649.1	652.4
25°	621.2	624.4	634.4	637.7	640.9
27.5°	604.7	608.1	616.3	622.8	627.7
30°	588.4	591.6	601.4	609.7	613.0
32.5°	570.2	575.1	586.7	593.3	598.2
35°	550.5	555.4	567.0	578.4	583.5
37.5°	530.9	535.8	547.2	562.1	568.6
40°	507.9	514.4	529.1	548.8	552.1
42.5°	486.5	494.6	507.9	530.9	539.0
45°	461.8	470.0	488.1	512.8	525.8
47.5°	438.8	446.9	466.7	496.3	512.8
50°	410.9	422.3	446.9	481.6	497.9
52.5°	384.6	394.4	427.3	465.1	484.8
55°	356.6	368.1	407.6	448.6	470.0
57.5°	332.0	341.8	386.2	432.2	456.9
60°	300.8	313.9	364.8	414.1	438.8
62.5°	267.8	287.6	343.4	394.4	420.7
65°	236.6	259.6	323.8	374.6	401.1
67.5°	208.7	233.4	299.2	353.4	378.0
70°	175.9	207.1	274.5	327.1	355.0
72.5°	146.3	180.8	246.6	299.2	323.8
75°	116.8	154.5	218.5	262.9	277.8
77.5°	90.3	126.6	187.3	200.5	202.2
80°	67.4	100.3	139.6	141.3	146.3
82.5°	46.0	70.7	90.3	98.6	100.3
85°	29.6	41.2	50.9	52.6	55.8
87.5°	13.2	14.9	18.1	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)