

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: P475038

Luminaire Tested: **22CZ2-50VHE-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475038
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-50VHE-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: 3408.4 lumens
Efficiency: N/A
Efficacy: 97.4 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

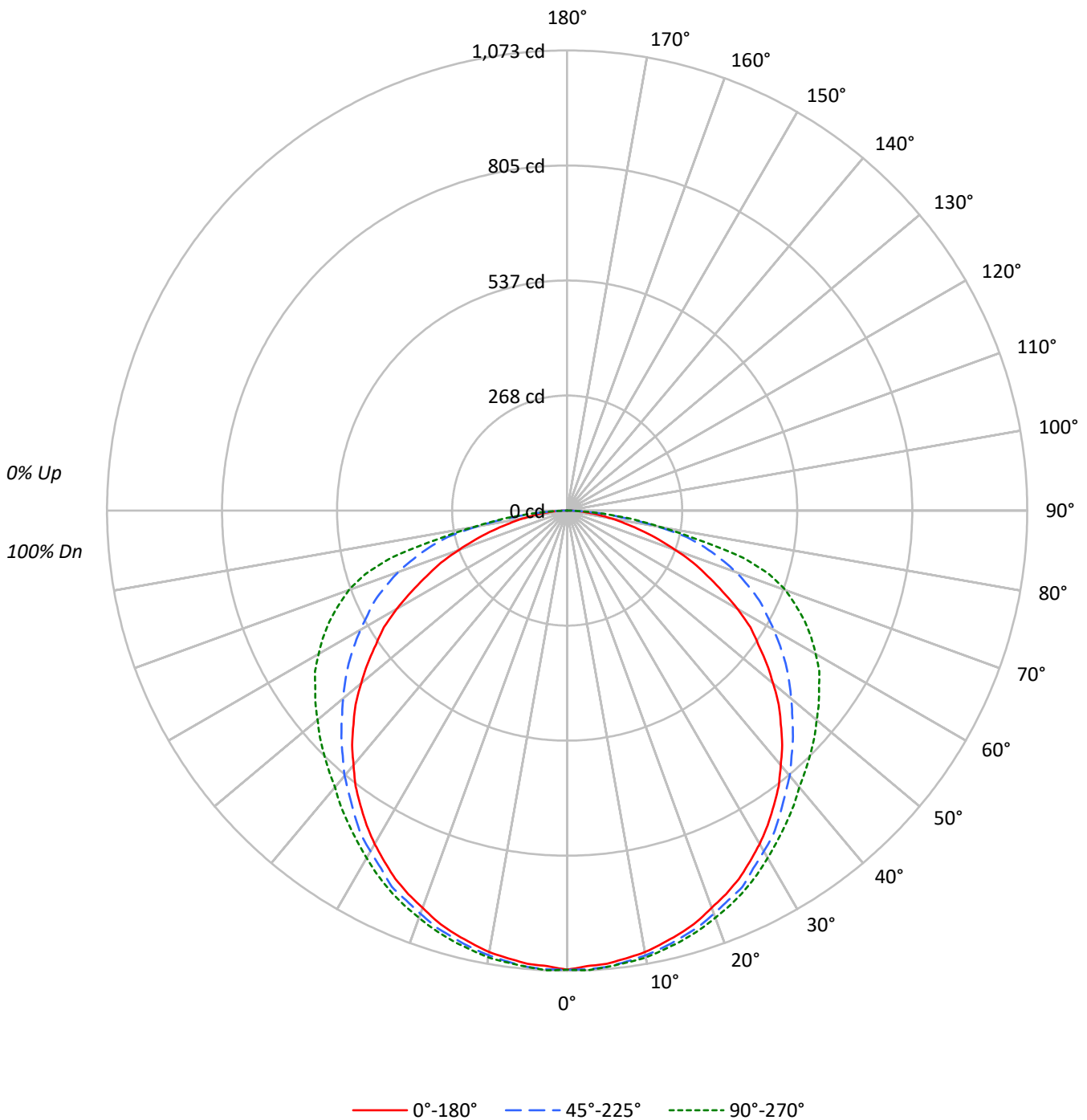
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2881	2881	2881
5°	2865	2885	2885
10°	2857	2878	2891
15°	2843	2871	2891
20°	2822	2865	2894
25°	2814	2874	2904
30°	2789	2851	2906
35°	2759	2842	2924
40°	2722	2836	2959
45°	2681	2834	3053
50°	2624	2855	3180
55°	2553	2918	3364
60°	2470	2996	3603
65°	2299	3146	3896
70°	2111	3295	4261
75°	1852	3466	4406
80°	1595	3301	3459
85°	1392	2399	2631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	3.0
10°-20°	290.8	8.5
20°-30°	443.6	13.0
30°-40°	541.7	15.9
40°-50°	579.2	17.0
50°-60°	559.0	16.4
60°-70°	481.2	14.1
70°-80°	325.6	9.6
80°-90°	86.0	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°	835.7	24.5
0°-40°	1377.4	40.4
0°-60°	2515.6	73.8
0°-90°	3408.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3408.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1061	1063	1068	1068	1068	101
15°	1020	1023	1030	1035	1038	288
25°	948	953	968	973	978	436
35°	840	847	865	882	890	526
45°	705	717	745	782	802	544
55°	544	562	622	684	717	488
65°	361	396	494	572	612	359
75°	178	236	333	401	424	191
85°	45	63	78	80	85	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1070.6	1070.6	1070.6	1070.6	1070.6
2.5°	1063.1	1065.6	1070.6	1070.6	1073.1
5°	1060.6	1063.1	1068.1	1068.1	1068.1
7.5°	1053.1	1055.6	1060.6	1063.1	1063.1
10°	1045.4	1048.1	1053.1	1055.6	1058.1
12.5°	1033.0	1035.4	1042.9	1048.1	1048.1
15°	1020.5	1023.0	1030.5	1035.4	1037.9
17.5°	1005.3	1010.5	1018.0	1023.0	1025.5
20°	985.4	990.3	1000.3	1008.0	1010.5
22.5°	967.9	972.9	982.9	990.3	995.3
25°	947.7	952.7	967.9	972.9	977.9
27.5°	922.6	927.8	940.3	950.2	957.7
30°	897.7	902.6	917.6	930.3	935.3
32.5°	870.0	877.5	895.2	905.1	912.6
35°	839.9	847.3	865.0	882.5	890.2
37.5°	810.0	817.4	834.9	857.6	867.5
40°	774.8	784.8	807.2	837.4	842.4
42.5°	742.2	754.7	774.8	810.0	822.4
45°	704.6	717.0	744.7	782.3	802.2
47.5°	669.4	681.9	712.1	757.1	782.3
50°	626.8	644.3	681.9	734.7	759.6
52.5°	586.7	601.7	652.0	709.6	739.7
55°	544.1	561.6	621.9	684.4	717.0
57.5°	506.5	521.5	589.2	659.5	697.1
60°	458.9	478.9	556.6	631.8	669.4
62.5°	408.6	438.7	523.9	601.7	641.8
65°	361.0	396.1	494.1	571.5	611.9
67.5°	318.4	356.0	456.4	539.1	576.8
70°	268.3	315.9	418.8	499.0	541.6
72.5°	223.2	275.8	376.2	456.4	494.1
75°	178.1	235.7	333.4	401.1	423.8
77.5°	137.8	193.1	285.8	305.9	308.4
80°	102.9	153.0	213.0	215.5	223.2
82.5°	70.3	107.9	137.8	150.5	153.0
85°	45.1	62.8	77.7	80.2	85.2
87.5°	20.2	22.7	27.7	25.2	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)