

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: P475039

Luminaire Tested: **22CZ2-55VHE-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475039
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-55VHE-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: 3728.6 lumens
Efficiency: N/A
Efficacy: 96.8 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

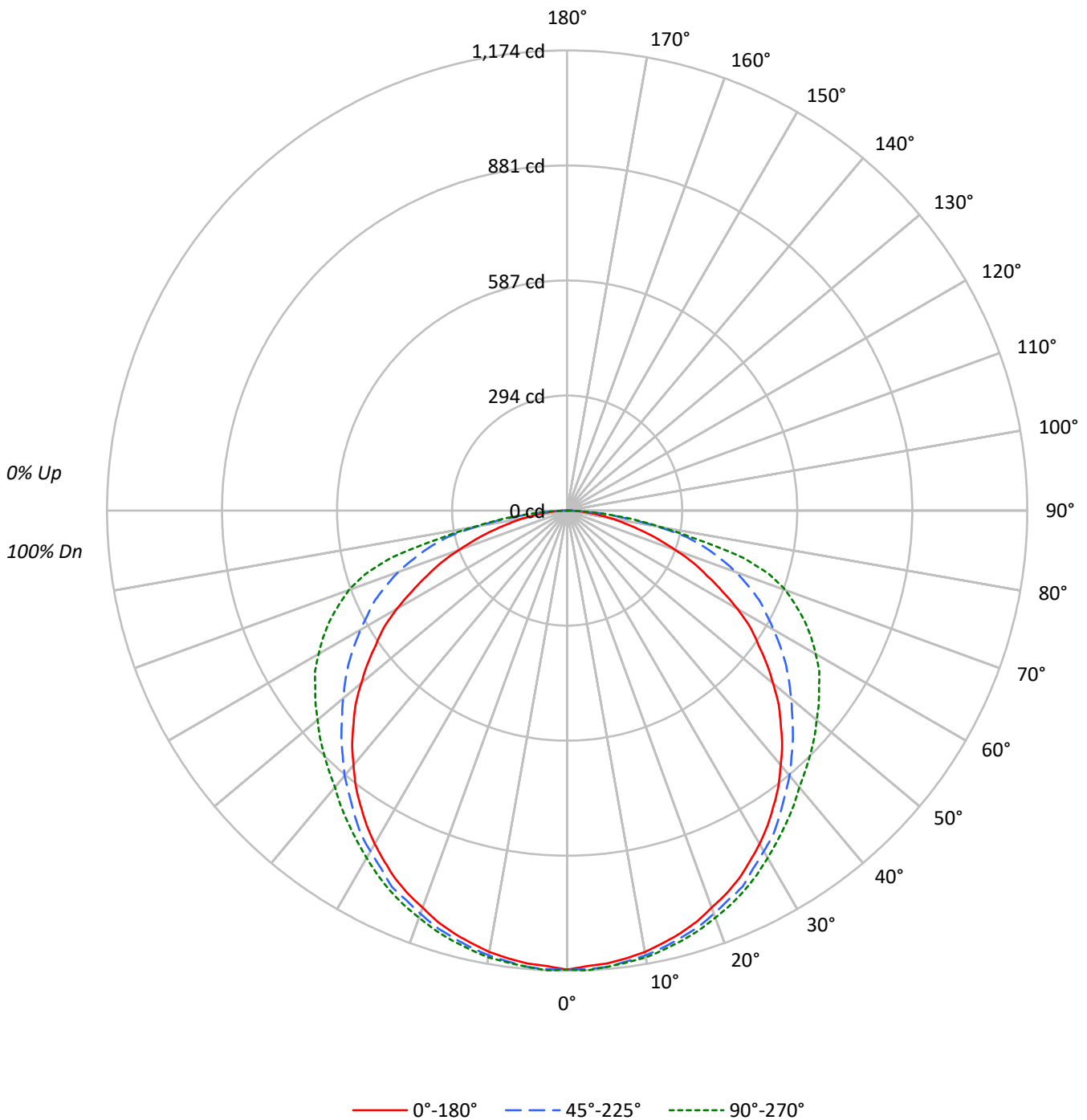
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3152	3152	3152
5°	3134	3156	3156
10°	3125	3148	3163
15°	3110	3141	3163
20°	3087	3134	3166
25°	3078	3144	3176
30°	3051	3119	3179
35°	3018	3109	3199
40°	2977	3102	3237
45°	2933	3100	3340
50°	2871	3123	3479
55°	2793	3192	3680
60°	2702	3277	3942
65°	2514	3442	4262
70°	2309	3605	4662
75°	2026	3792	4820
80°	1745	3611	3784
85°	1522	2624	2878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.0
10°-20°	318.1	8.5
20°-30°	485.3	13.0
30°-40°	592.6	15.9
40°-50°	633.6	17.0
50°-60°	611.6	16.4
60°-70°	526.5	14.1
70°-80°	356.2	9.6
80°-90°	94.0	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°	914.2	24.5
0°-40°	1506.8	40.4
0°-60°	2752.0	73.8
0°-90°	3728.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3728.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1160	1163	1168	1168	1168	110
15°	1116	1119	1127	1133	1136	315
25°	1037	1042	1059	1064	1070	477
35°	919	927	946	965	974	575
45°	771	784	815	856	878	595
55°	595	614	680	749	784	533
65°	395	433	540	625	669	393
75°	195	258	365	439	464	209
85°	49	69	85	88	93	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.2	1171.2	1171.2	1171.2	1171.2
2.5°	1163.0	1165.7	1171.2	1171.2	1173.9
5°	1160.3	1163.0	1168.4	1168.4	1168.4
7.5°	1152.1	1154.8	1160.3	1163.0	1163.0
10°	1143.6	1146.6	1152.1	1154.8	1157.5
12.5°	1130.0	1132.7	1140.9	1146.6	1146.6
15°	1116.4	1119.1	1127.3	1132.7	1135.5
17.5°	1099.8	1105.5	1113.7	1119.1	1121.8
20°	1078.0	1083.4	1094.3	1102.8	1105.5
22.5°	1058.9	1064.3	1075.2	1083.4	1088.9
25°	1036.8	1042.2	1058.9	1064.3	1069.8
27.5°	1009.3	1015.0	1028.6	1039.5	1047.7
30°	982.0	987.5	1003.8	1017.7	1023.2
32.5°	951.8	959.9	979.3	990.2	998.4
35°	918.8	927.0	946.3	965.4	973.8
37.5°	886.1	894.3	913.3	938.1	949.0
40°	847.6	858.5	883.1	916.1	921.5
42.5°	811.9	825.6	847.6	886.1	899.7
45°	770.8	784.4	814.7	855.8	877.6
47.5°	732.4	746.0	779.0	828.3	855.8
50°	685.7	704.8	746.0	803.8	831.0
52.5°	641.9	658.2	713.3	776.2	809.2
55°	595.3	614.3	680.3	748.7	784.4
57.5°	554.1	570.5	644.6	721.5	762.6
60°	502.0	523.9	608.9	691.2	732.4
62.5°	447.0	480.0	573.2	658.2	702.1
65°	394.9	433.4	540.5	625.2	669.4
67.5°	348.3	389.5	499.3	589.8	631.0
70°	293.5	345.6	458.2	545.9	592.5
72.5°	244.2	301.7	411.6	499.3	540.5
75°	194.9	257.8	364.7	438.8	463.6
77.5°	150.7	211.2	312.6	334.7	337.4
80°	112.6	167.3	233.0	235.8	244.2
82.5°	76.9	118.0	150.7	164.6	167.3
85°	49.3	68.7	85.0	87.8	93.2
87.5°	22.1	24.8	30.3	27.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)