Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P475497

Luminaire Tested: **14CZ2-35-SQR-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Report Generated By E0454808 / USPTCWHP6056648

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P475497
Test Lab:	INNOVATION CENTER(G3)
Issue Date:	02/10/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	14CZ2-35-SQR-UNV-L835-CD1-U
Description:	1'X4' TROFFER LED MODULE, SQUARE LENS
Light Source:	3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3513.7 lumens
Efficiency:	N/A
Efficacy:	123.3 lumens/watt
Spacing Criteria (0/90/45):	1.22 / 1.34 / 1.43
Luminous Opening:	Rectangular (W 1' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	28.5
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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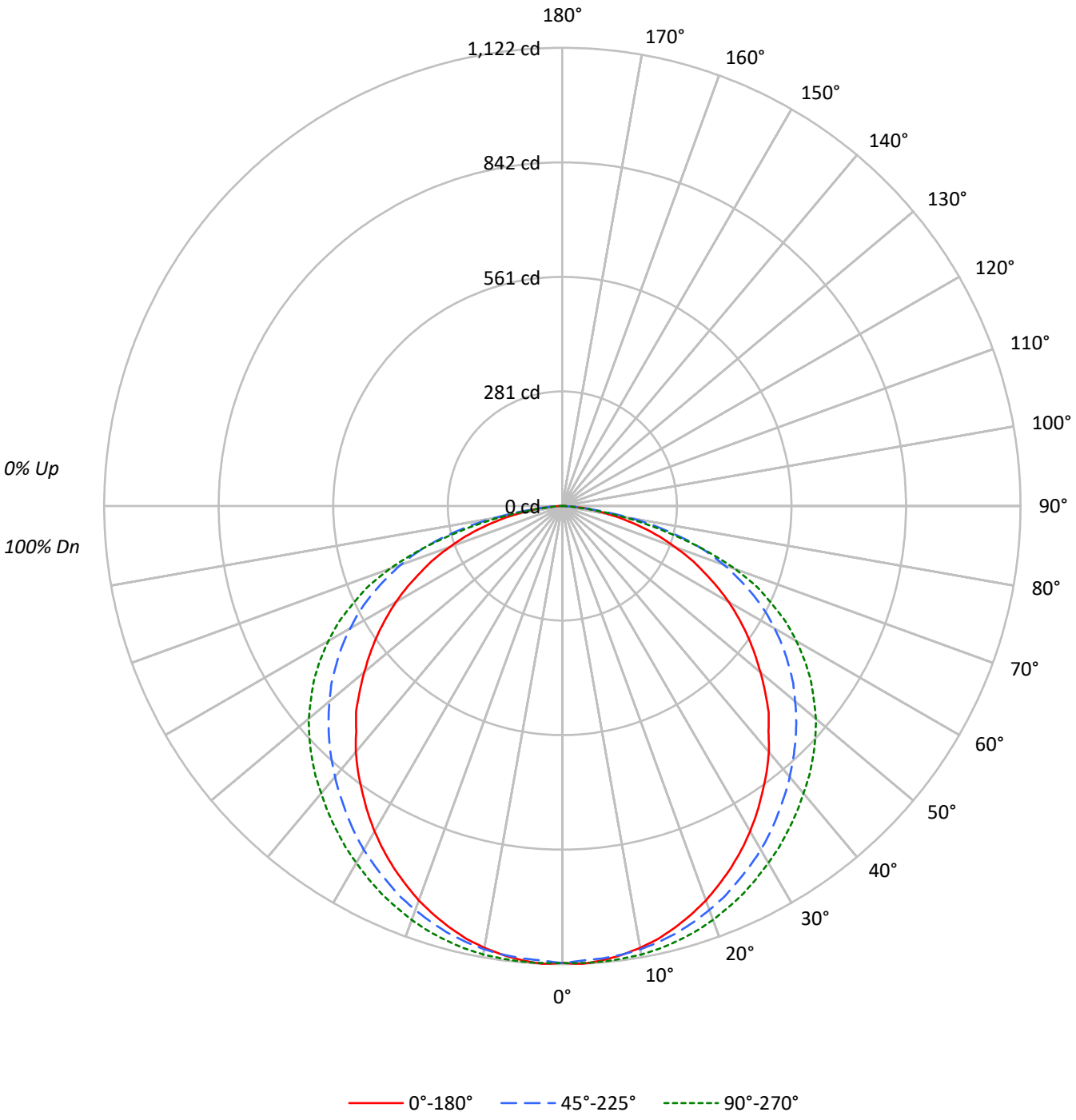
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	69	63	86	76	68	62	73	67	61	70	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3011	3011	3011
5°	3018	3004	3026
10°	3001	3012	3047
15°	2977	3015	3068
20°	2943	3014	3088
25°	2901	3013	3111
30°	2858	3021	3135
35°	2806	3025	3174
40°	2764	3042	3227
45°	2718	3073	3304
50°	2650	3115	3394
55°	2597	3170	3482
60°	2531	3230	3561
65°	2432	3285	3601
70°	2303	3310	3536
75°	2104	3198	3054
80°	1768	2614	2275
85°	1288	1318	858

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	3.0
10°-20°	306.3	8.7
20°-30°	468.3	13.3
30°-40°	574.8	16.4
40°-50°	618.1	17.6
50°-60°	593.4	16.9
60°-70°	491.6	14.0
70°-80°	294.6	8.4
80°-90°	60.3	1.7
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°	880.9	25.1
0°-40°	1455.7	41.4
0°-60°	2667.2	75.9
0°-90°	3513.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3513.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1117	1115	1112	1121	1120	106
15°	1068	1074	1082	1099	1101	301
25°	977	993	1015	1042	1048	450
35°	854	883	921	956	966	535
45°	714	752	808	852	868	549
55°	554	606	676	725	742	494
65°	382	444	516	557	566	379
75°	202	264	308	301	294	214
85°	42	60	43	29	28	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1119.1*	1119.1	1119.1	1119.1	1119.1
2.5°	*1122.1*	*1119.1*	*1114.1*	*1122.1*	*1120.1*
5°	*1117.1*	1115.1	1112.2	1121.1	1120.1
7.5°	*1109.2*	1109.2	1108.2	1119.1	1118.1
10°	*1098.3*	1100.2	1102.2	1115.1	1115.1
12.5°	*1085.4*	1087.4	1093.3	1108.2	1109.2
15°	*1068.5*	1073.5	1082.4	1099.3	1101.2
17.5°	*1048.7*	1056.6	1068.5	1088.3	1091.3
20°	*1027.8*	1036.8	1052.6	1074.5	1078.4
22.5°	*1003.0*	1015.9	1035.8	1058.6	1063.5
25°	*977.2*	993.1	1014.9	1041.7	1047.7
27.5°	*949.4*	968.3	994.1	1021.9	1028.8
30°	*919.7*	941.5	972.3	1002.0	1009.0
32.5°	*887.9*	913.7	947.5	980.2	989.1
35°	*854.2*	883.0	920.7	956.4	966.3
37.5°	*821.5*	852.2	893.9	932.6	943.5
40°	*786.7*	819.5	866.1	906.8	918.7
42.5°	*747.1*	786.7	837.3	881.0	894.9
45°	*714.3*	752.0	807.6	852.2	868.1
47.5°	*673.6*	717.3	776.8	824.4	840.3
50°	*633.0*	682.6	744.1	793.7	810.6
52.5°	*593.3*	643.9	712.3	760.9	775.8
55°	*553.6*	606.2	675.6	725.2	742.1
57.5°	*511.9*	569.5	639.9	689.5	703.4
60°	*470.3*	527.8	600.2	647.8	661.7
62.5°	*426.6*	488.1	560.5	604.2	618.1
65°	*382.0*	444.5	515.9	556.6	565.5
67.5°	*340.3*	403.8	468.3	506.0	514.9
70°	*292.7*	360.1	420.7	448.4	449.4
72.5°	*249.0*	311.5	369.1	377.0	375.0
75°	*202.4*	263.9	307.6	300.6	293.7
77.5°	*156.8*	219.3	242.1	222.2	217.3
80°	*114.1*	170.6	168.7	149.8	146.8
82.5°	*78.4*	118.1	97.2	79.4	73.4
85°	*41.7*	60.5	42.7	28.8	27.8
87.5°	*15.9*	14.9	8.9	6.0	6.0
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)