

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: P475463

Luminaire Tested: **14CZ2-44-HRP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475463
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-HRP-UNV-L835-CD1-U
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS W/ HRP INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

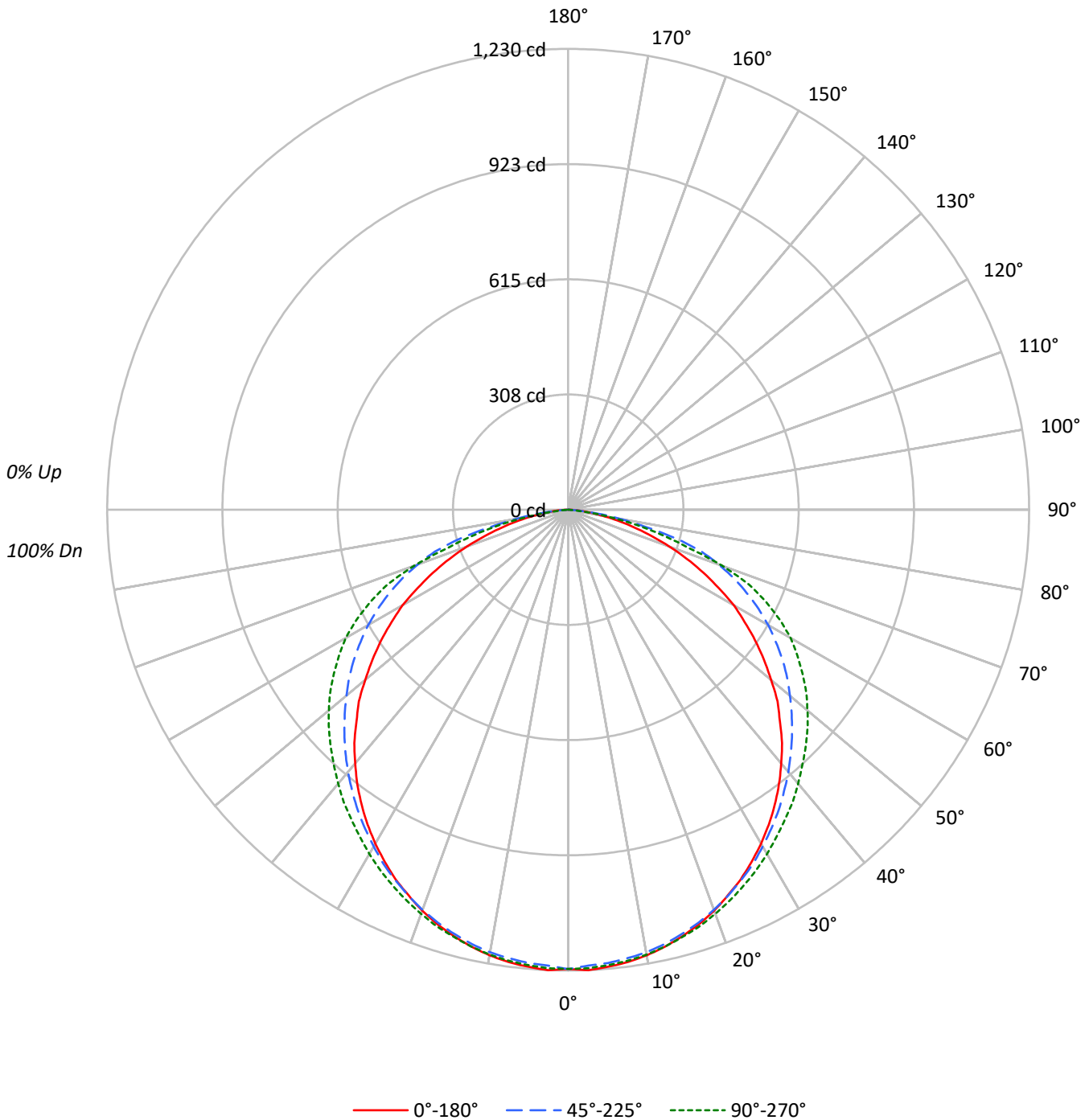
Lumens per Lamp: N/A
Luminaire Lumens: 3662.5 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.6
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3299	3299	3299
5°	3308	3281	3296
10°	3300	3278	3294
15°	3283	3267	3289
20°	3261	3255	3287
25°	3233	3240	3287
30°	3198	3226	3296
35°	3158	3217	3314
40°	3106	3210	3353
45°	3038	3215	3408
50°	2959	3234	3489
55°	2860	3273	3581
60°	2745	3317	3688
65°	2535	3348	3708
70°	2260	3364	3434
75°	1893	3116	2669
80°	1437	2191	1753
85°	1013	769	244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.2
10°-20°	332.5	9.1
20°-30°	505.3	13.8
30°-40°	615.3	16.8
40°-50°	653.6	17.8
50°-60°	618.3	16.9
60°-70°	501.0	13.7
70°-80°	274.6	7.5
80°-90°	45.9	1.3
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°	953.8	26.0
0°-40°	1569.1	42.8
0°-60°	2841.0	77.6
0°-90°	3662.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3662.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1225	1222	1214	1222	1220	116
15°	1178	1176	1173	1182	1181	333
25°	1089	1089	1091	1106	1107	501
35°	961	965	979	1003	1009	601
45°	798	811	845	883	896	617
55°	610	637	698	749	763	544
65°	398	443	526	572	582	394
75°	182	251	300	265	257	195
85°	33	43	25	12	8	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.8	1225.8	1225.8	1225.8	1225.8
2.5°	1230.4	1225.8	1217.9	1225.8	1224.7
5°	1224.7	1222.4	1214.5	1222.4	1220.2
7.5°	1217.9	1215.7	1207.7	1216.8	1214.5
10°	1207.7	1205.5	1199.8	1207.7	1205.5
12.5°	1194.2	1193.0	1187.4	1196.4	1194.2
15°	1178.3	1176.1	1172.7	1181.7	1180.6
17.5°	1160.3	1158.0	1155.7	1167.0	1165.9
20°	1138.8	1137.6	1136.5	1148.9	1147.8
22.5°	1113.9	1113.9	1115.0	1128.6	1128.6
25°	1089.0	1089.0	1091.3	1106.0	1107.1
27.5°	1059.6	1061.9	1066.4	1082.2	1085.6
30°	1029.1	1031.3	1038.1	1056.2	1060.7
32.5°	996.3	999.7	1008.7	1030.2	1034.7
35°	961.2	964.6	979.3	1003.1	1008.7
37.5°	923.9	929.6	946.5	973.7	983.8
40°	884.3	893.4	913.7	943.1	954.4
42.5°	844.7	852.7	879.8	913.7	925.0
45°	798.4	810.8	844.7	883.2	895.6
47.5°	757.7	769.0	808.6	851.5	866.2
50°	706.8	723.7	772.4	819.9	833.4
52.5°	658.2	680.8	736.2	784.8	800.6
55°	609.5	636.7	697.7	748.6	763.3
57.5°	558.6	588.0	657.0	709.0	724.9
60°	510.0	541.7	616.3	669.5	685.3
62.5°	452.3	491.9	572.2	623.1	636.7
65°	398.1	443.3	525.8	572.2	582.4
67.5°	342.6	395.8	478.3	519.1	522.5
70°	287.2	347.2	427.5	452.3	436.5
72.5°	233.0	299.7	373.2	352.8	334.7
75°	182.1	251.0	299.7	264.6	256.7
77.5°	134.6	205.8	209.2	192.2	186.6
80°	92.7	159.4	141.4	122.1	113.1
82.5°	59.9	98.4	78.0	57.7	52.0
85°	32.8	43.0	24.9	12.4	7.9
87.5°	12.4	7.9	3.4	3.4	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)