

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: P475427

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475427
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-RDP-UNV-L835-CD1-U
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

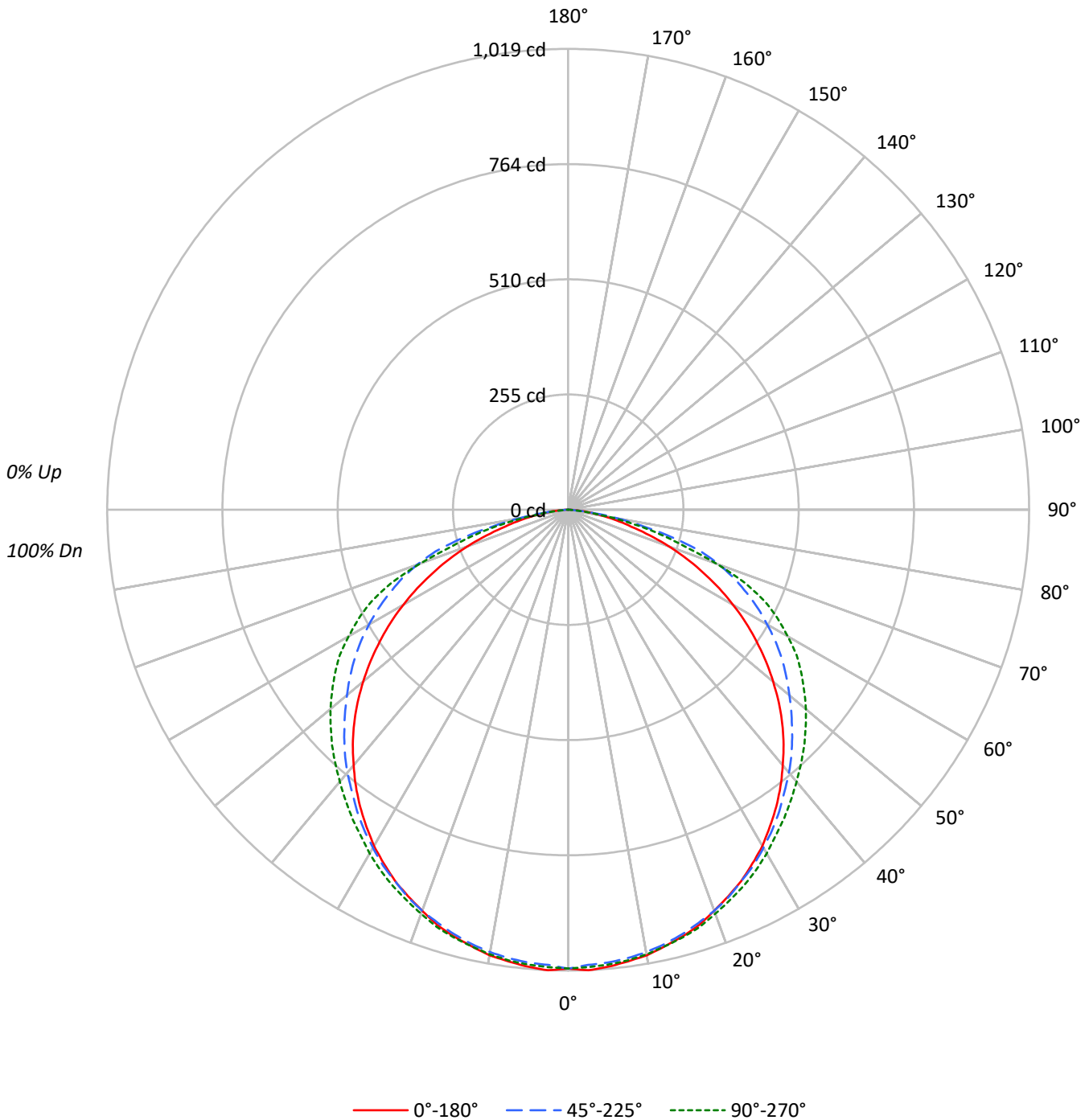
Lumens per Lamp: N/A
Luminaire Lumens: 3029.5 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	40	51	44	39	50	44	39	37
7	64	50	42	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	42	34	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°	2730	2730	2730
5°	2741	2715	2728
10°	2734	2714	2727
15°	2721	2708	2728
20°	2702	2702	2723
25°	2689	2689	2725
30°	2668	2683	2727
35°	2634	2673	2735
40°	2592	2667	2758
45°	2547	2664	2808
50°	2475	2673	2871
55°	2386	2708	2951
60°	2266	2737	3017
65°	2094	2771	3057
70°	1861	2792	2736
75°	1500	2508	2189
80°	1173	1759	1429
85°	803	513	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	3.2
10°-20°	275.5	9.1
20°-30°	419.6	13.8
30°-40°	511.0	16.9
40°-50°	542.1	17.9
50°-60°	511.7	16.9
60°-70°	413.1	13.6
70°-80°	224.1	7.4
80°-90°	36.3	1.2
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°	791.1	26.1
0°-40°	1302.1	43.0
0°-60°	2356.0	77.8
0°-90°	3029.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1015	1012	1005	1012	1010	96
15°	977	974	972	979	979	276
25°	906	904	906	915	918	417
35°	802	806	814	830	832	501
45°	669	679	700	726	738	515
55°	508	530	577	615	629	454
65°	329	369	435	471	480	326
75°	144	210	241	218	210	158
85°	26	28	17	14	12	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1014.6	1014.6	1014.6	1014.6	1014.6
2.5°	1019.4	1014.6	1007.5	1014.6	1012.3
5°	1014.6	1012.3	1005.2	1012.3	1009.9
7.5°	1007.5	1007.5	1000.5	1005.2	1005.2
10°	1000.5	998.1	993.4	1000.5	998.1
12.5°	988.6	986.3	983.9	991.0	988.6
15°	976.8	974.4	972.1	979.2	979.2
17.5°	962.6	960.2	957.9	967.3	967.3
20°	943.7	943.7	943.7	953.2	950.8
22.5°	924.8	924.8	927.1	936.6	934.2
25°	905.8	903.5	905.8	915.3	917.7
27.5°	882.2	884.6	886.9	896.4	898.8
30°	858.5	860.9	863.3	875.1	877.5
32.5°	830.2	834.9	839.6	853.8	853.8
35°	801.8	806.5	813.6	830.2	832.5
37.5°	771.0	775.8	785.2	804.1	808.9
40°	737.9	745.0	759.2	778.1	785.2
42.5°	704.8	714.3	730.8	752.1	761.6
45°	669.3	678.8	700.1	726.1	737.9
47.5°	631.5	643.3	669.3	702.4	711.9
50°	591.3	607.8	638.6	674.1	685.9
52.5°	551.1	570.0	607.8	645.7	657.5
55°	508.5	529.8	577.1	614.9	629.1
57.5°	465.9	489.6	544.0	584.2	598.4
60°	421.0	449.4	508.5	548.7	560.5
62.5°	376.1	409.2	473.0	513.2	522.7
65°	328.8	369.0	435.2	470.7	480.1
67.5°	283.8	331.1	397.3	423.4	423.4
70°	236.5	288.5	354.8	361.9	347.7
72.5°	189.2	248.3	307.5	281.5	269.6
75°	144.3	210.5	241.2	217.6	210.5
77.5°	108.8	170.3	170.3	156.1	151.4
80°	75.7	130.1	113.5	99.3	92.2
82.5°	49.7	73.3	59.1	47.3	40.2
85°	26.0	28.4	16.6	14.2	11.8
87.5°	9.5	4.7	2.4	4.7	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)