

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: P475436

Luminaire Tested: **14CZ2-44-RDP-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475436
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-L840-CD1-U
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

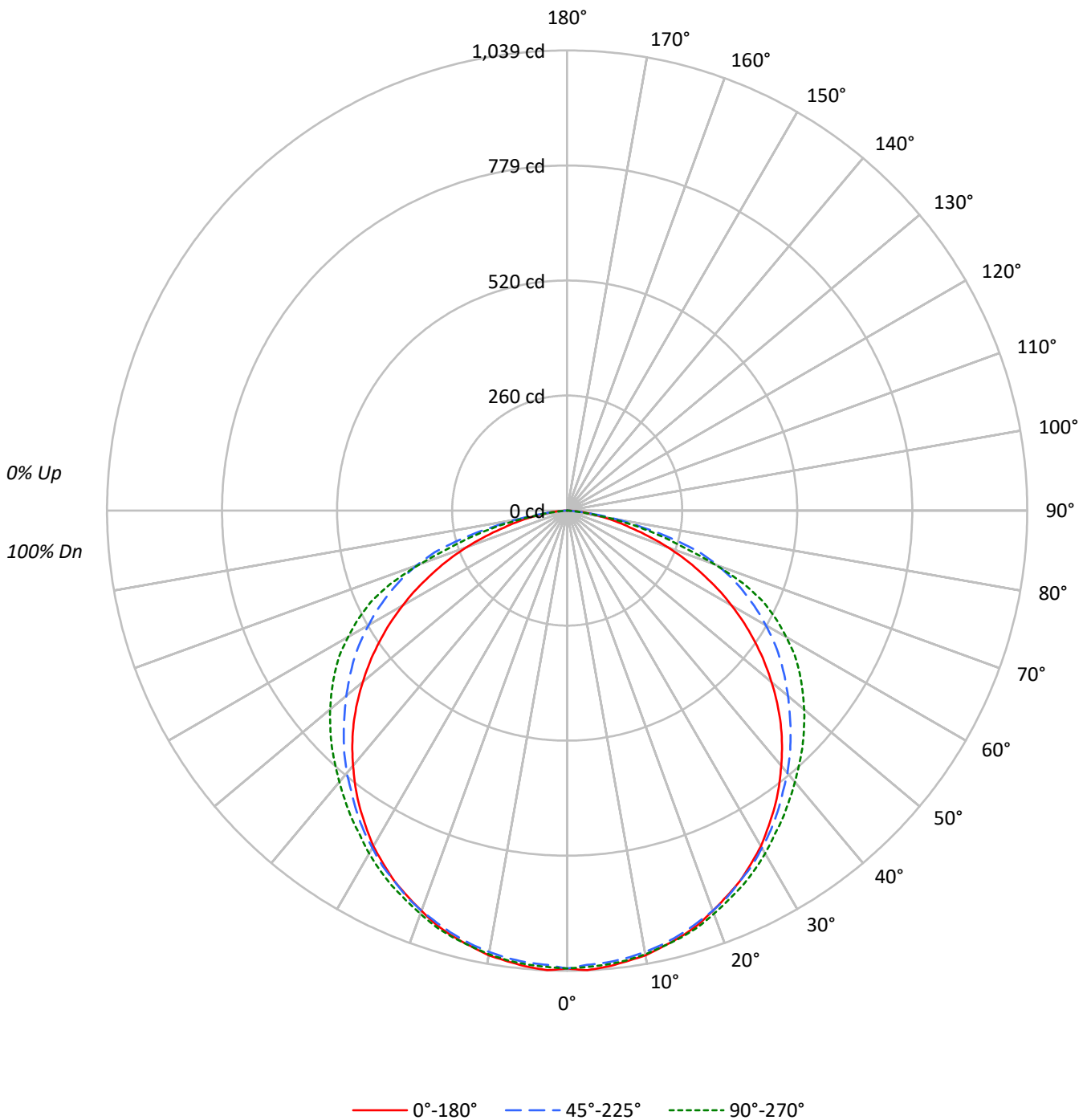
Lumens per Lamp: N/A
Luminaire Lumens: 3087.0 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2782	2782	2782
5°	2793	2767	2780
10°	2786	2766	2779
15°	2773	2759	2780
20°	2754	2754	2774
25°	2741	2741	2776
30°	2719	2733	2778
35°	2684	2724	2787
40°	2641	2718	2811
45°	2596	2715	2861
50°	2522	2724	2926
55°	2431	2759	3008
60°	2309	2789	3074
65°	2133	2824	3115
70°	1896	2844	2788
75°	1528	2556	2230
80°	1195	1793	1457
85°	818	522	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.2
10°-20°	280.8	9.1
20°-30°	427.5	13.8
30°-40°	520.7	16.9
40°-50°	552.4	17.9
50°-60°	521.4	16.9
60°-70°	421.0	13.6
70°-80°	228.4	7.4
80°-90°	37.0	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°	806.2	26.1
0°-40°	1326.9	43.0
0°-60°	2400.7	77.8
0°-90°	3087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1034	1032	1024	1032	1029	98
15°	995	993	990	998	998	281
25°	923	921	923	933	935	425
35°	817	822	829	846	848	511
45°	682	692	713	740	752	525
55°	518	540	588	627	641	463
65°	335	376	444	480	489	332
75°	147	214	246	222	214	161
85°	26	29	17	14	12	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1033.9	1033.9	1033.9	1033.9	1033.9
2.5°	1038.7	1033.9	1026.7	1033.9	1031.5
5°	1033.9	1031.5	1024.3	1031.5	1029.1
7.5°	1026.7	1026.7	1019.5	1024.3	1024.3
10°	1019.5	1017.1	1012.2	1019.5	1017.1
12.5°	1007.4	1005.0	1002.6	1009.8	1007.4
15°	995.4	993.0	990.5	997.8	997.8
17.5°	980.9	978.5	976.1	985.7	985.7
20°	961.6	961.6	961.6	971.3	968.8
22.5°	942.3	942.3	944.7	954.4	952.0
25°	923.1	920.6	923.1	932.7	935.1
27.5°	899.0	901.4	903.8	913.4	915.8
30°	874.9	877.3	879.7	891.7	894.1
32.5°	845.9	850.8	855.6	870.0	870.0
35°	817.0	821.8	829.1	845.9	848.3
37.5°	785.7	790.5	800.1	819.4	824.2
40°	751.9	759.2	773.6	792.9	800.1
42.5°	718.2	727.8	744.7	766.4	776.0
45°	682.1	691.7	713.4	739.9	751.9
47.5°	643.5	655.5	682.1	715.8	725.4
50°	602.5	619.4	650.7	686.9	698.9
52.5°	561.5	580.8	619.4	658.0	670.0
55°	518.2	539.9	588.1	626.6	641.1
57.5°	474.8	498.9	554.3	595.3	609.7
60°	429.0	457.9	518.2	559.1	571.2
62.5°	383.2	416.9	482.0	523.0	532.6
65°	335.0	376.0	443.5	479.6	489.2
67.5°	289.2	337.4	404.9	431.4	431.4
70°	241.0	294.0	361.5	368.7	354.3
72.5°	192.8	253.1	313.3	286.8	274.7
75°	147.0	214.5	245.8	221.7	214.5
77.5°	110.9	173.5	173.5	159.1	154.2
80°	77.1	132.6	115.7	101.2	94.0
82.5°	50.6	74.7	60.3	48.2	41.0
85°	26.5	28.9	16.9	14.5	12.1
87.5°	9.6	4.8	2.4	4.8	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)