

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: P271942

Luminaire Tested: **14CZ2-35-S-UNV-L935-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P271942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-S-UNV-L935-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 90CRI
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

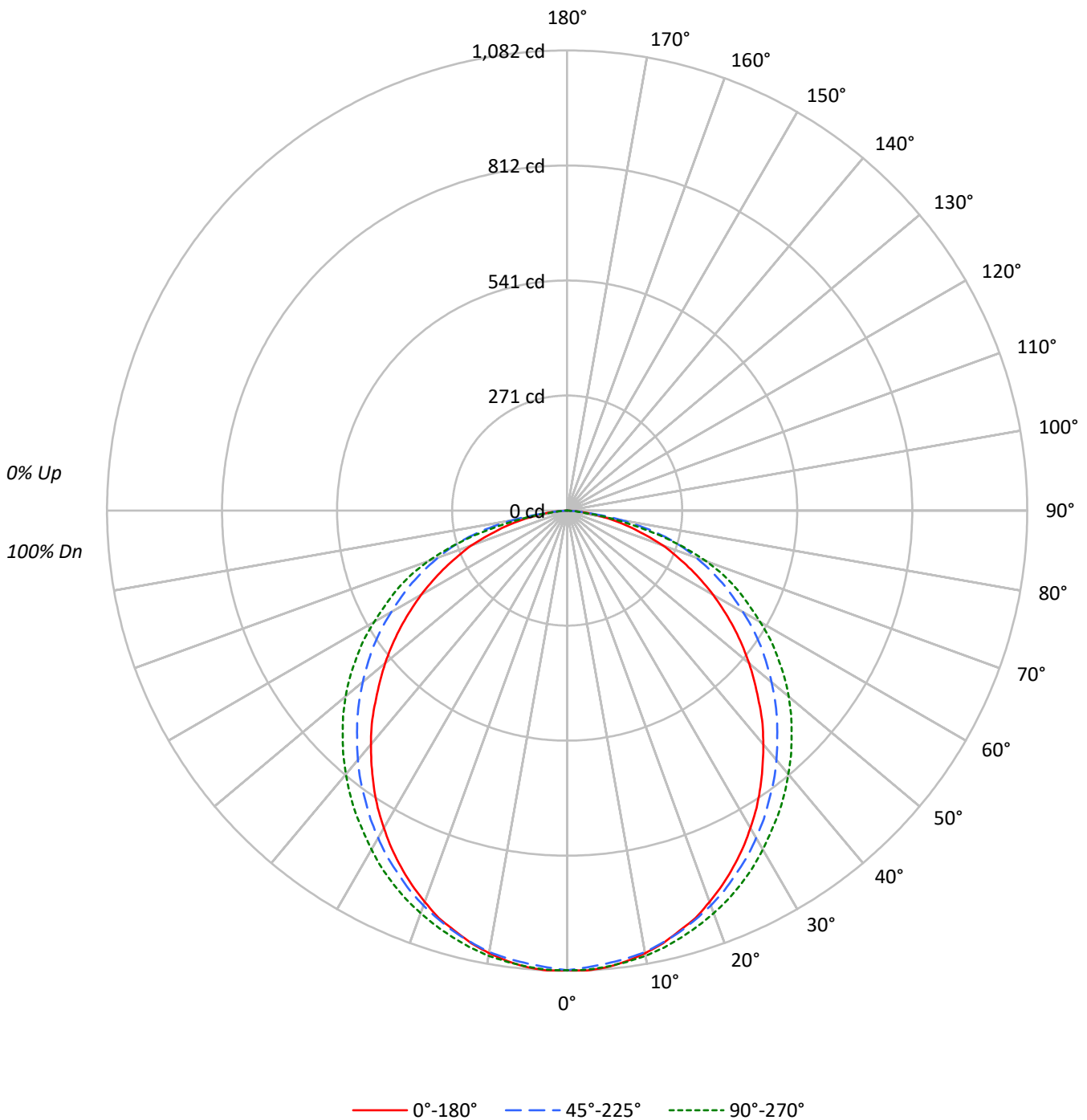
Lumens per Lamp: N/A
Luminaire Lumens: 3028.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.2
Input Voltage (V): NR
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	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2909	2909	2909
5°	2912	2887	2908
10°	2888	2880	2904
15°	2848	2857	2894
20°	2803	2829	2885
25°	2746	2795	2875
30°	2678	2762	2860
35°	2604	2722	2851
40°	2521	2690	2843
45°	2428	2657	2840
50°	2338	2627	2847
55°	2240	2606	2838
60°	2133	2569	2820
65°	2008	2562	2820
70°	1890	2540	2740
75°	1639	2482	2341
80°	1327	2001	1559
85°	880	695	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.4
10°-20°	290.5	9.6
20°-30°	435.7	14.4
30°-40°	519.7	17.2
40°-50°	537.3	17.7
50°-60°	490.6	16.2
60°-70°	386.0	12.7
70°-80°	224.7	7.4
80°-90°	41.4	1.4
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°	828.2	27.4
0°-40°	1348.0	44.5
0°-60°	2375.8	78.5
0°-90°	3028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1078	1075	1069	1078	1076	102
15°	1022	1024	1025	1039	1039	288
25°	925	929	941	964	968	426
35°	793	803	829	860	868	495
45°	638	659	698	737	746	493
55°	477	503	556	596	605	427
65°	315	348	402	434	443	313
75°	158	195	239	234	225	168
85°	28	40	22	18	15	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.9	1080.9	1080.9	1080.9	1080.9
2.5°	1082.4	1079.4	1074.9	1082.4	1080.9
5°	1077.9	1074.9	1068.9	1077.9	1076.4
7.5°	1068.9	1065.9	1062.9	1071.9	1070.4
10°	1056.9	1055.4	1053.9	1064.4	1062.9
12.5°	1041.9	1041.9	1040.4	1052.4	1052.4
15°	1022.4	1023.9	1025.4	1038.9	1038.9
17.5°	1004.4	1002.9	1007.4	1022.4	1023.9
20°	978.9	981.9	987.9	1005.9	1007.4
22.5°	953.3	956.3	966.8	984.9	989.4
25°	924.8	929.3	941.3	963.8	968.3
27.5°	894.8	900.8	917.3	941.3	945.8
30°	861.8	870.8	888.8	915.8	920.3
32.5°	828.7	837.7	860.3	887.3	893.3
35°	792.7	803.2	828.7	860.3	867.8
37.5°	755.2	768.7	798.7	830.2	839.2
40°	717.6	732.6	765.7	798.7	809.2
42.5°	680.1	695.1	731.1	768.7	779.2
45°	638.1	659.1	698.1	737.1	746.2
47.5°	597.5	620.0	663.6	702.6	714.6
50°	558.5	581.0	627.5	668.1	680.1
52.5°	518.0	542.0	591.5	633.6	644.1
55°	477.4	502.9	555.5	596.0	605.0
57.5°	436.9	463.9	518.0	557.0	567.5
60°	396.3	424.9	477.4	516.5	524.0
62.5°	355.8	385.8	439.9	474.4	481.9
65°	315.3	348.3	402.4	433.9	442.9
67.5°	276.2	309.3	361.8	391.8	399.3
70°	240.2	270.2	322.8	345.3	348.3
72.5°	195.2	232.7	283.7	295.8	288.3
75°	157.6	195.2	238.7	234.2	225.2
77.5°	120.1	157.6	186.2	171.1	159.1
80°	85.6	123.1	129.1	106.6	100.6
82.5°	55.5	85.6	72.1	55.5	45.0
85°	28.5	40.5	22.5	18.0	15.0
87.5°	9.0	6.0	3.0	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)