

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: P271898

Luminaire Tested: **14CZ2-25-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: P271898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-25-UNV-L935-CD1-U
Description: 1'X4' TROFFER LED MODULE, RIBBED 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: 2091.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

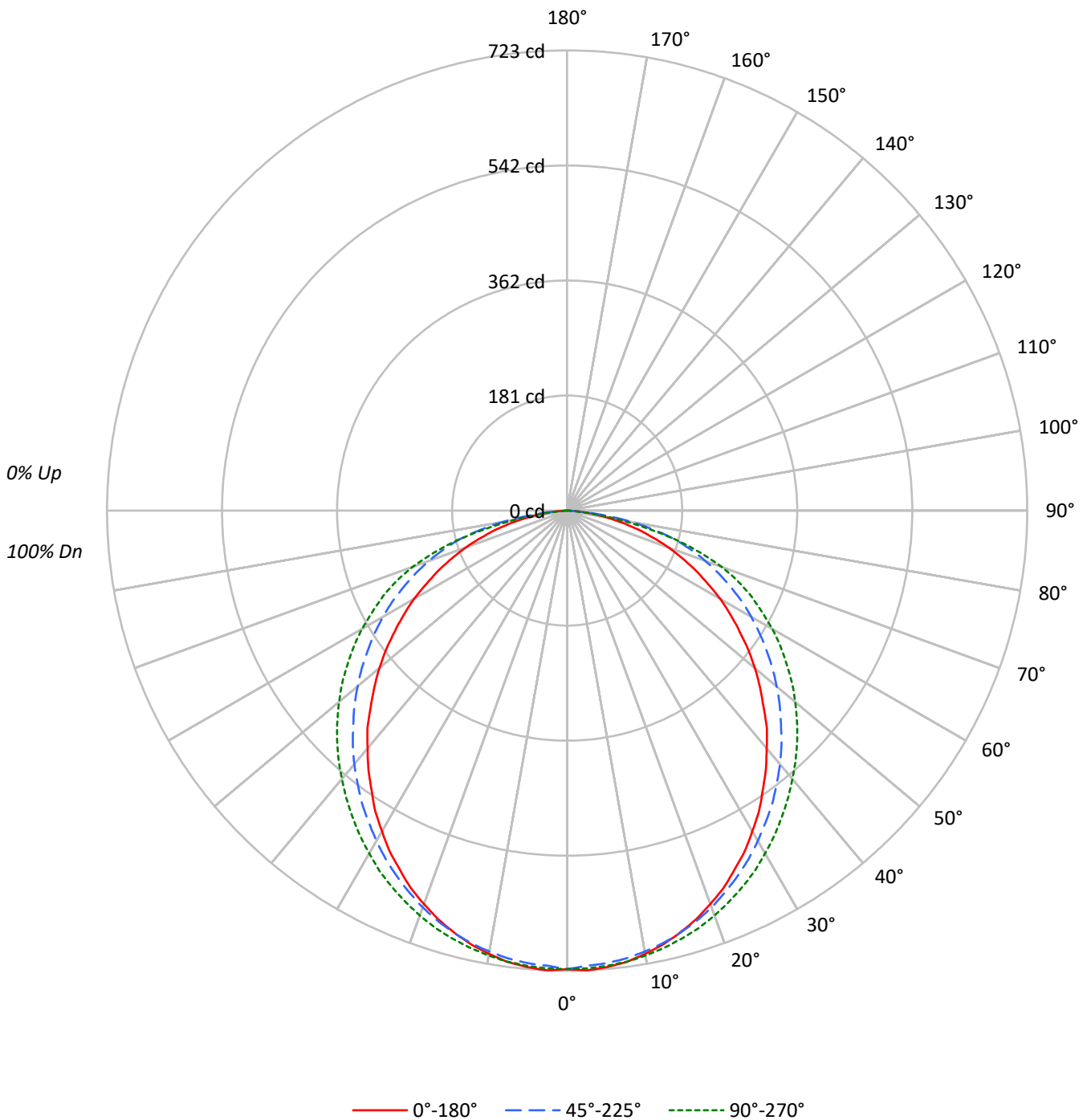
Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	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	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1939	1939	1939
5°	1945	1928	1940
10°	1933	1923	1940
15°	1912	1913	1939
20°	1884	1900	1939
25°	1848	1881	1937
30°	1808	1862	1933
35°	1760	1846	1931
40°	1713	1828	1934
45°	1661	1808	1945
50°	1612	1800	1958
55°	1551	1794	1975
60°	1496	1796	2003
65°	1419	1802	2034
70°	1331	1816	2032
75°	1207	1832	1837
80°	990	1582	1308
85°	735	747	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.3
10°-20°	194.7	9.3
20°-30°	293.3	14.0
30°-40°	352.0	16.8
40°-50°	366.9	17.5
50°-60°	339.6	16.2
60°-70°	274.4	13.1
70°-80°	167.3	8.0
80°-90°	34.5	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°	556.2	26.6
0°-40°	908.2	43.4
0°-60°	1614.7	77.2
0°-90°	2091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	720	718	714	719	718	68
15°	686	687	687	696	696	193
25°	622	626	634	650	652	287
35°	536	544	562	582	588	336
45°	436	450	475	502	511	337
55°	331	348	382	412	421	296
65°	223	245	283	312	319	220
75°	116	142	176	179	177	122
85°	24	35	24	14	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	720.4	720.4	720.4	720.4	720.4
2.5°	723.2	720.8	715.7	720.8	719.9
5°	719.9	718.0	713.8	719.0	718.0
7.5°	715.2	713.4	709.6	715.7	714.8
10°	707.3	706.4	703.6	710.6	710.1
12.5°	698.0	697.5	696.1	704.0	703.6
15°	686.3	686.8	686.8	696.1	696.1
17.5°	673.3	674.2	676.1	686.3	687.7
20°	657.9	659.7	663.5	675.1	677.0
22.5°	642.0	643.4	649.0	663.0	664.9
25°	622.4	626.2	633.6	649.5	652.3
27.5°	603.8	607.1	617.3	633.6	638.3
30°	581.9	587.0	599.1	616.8	622.0
32.5°	560.9	566.5	580.5	601.0	605.7
35°	535.7	544.1	561.8	582.3	587.9
37.5°	512.9	520.8	540.9	563.2	569.8
40°	487.7	497.5	520.3	544.1	550.6
42.5°	464.4	473.7	498.4	522.7	531.5
45°	436.4	449.5	475.1	501.7	511.0
47.5°	410.8	423.8	453.2	481.6	490.0
50°	385.1	399.1	429.9	459.3	467.6
52.5°	358.5	373.5	406.6	435.9	445.7
55°	330.6	347.8	382.3	412.2	421.0
57.5°	304.0	321.7	358.5	388.9	397.7
60°	277.9	296.1	333.8	362.7	372.1
62.5°	249.0	270.4	309.6	338.0	345.0
65°	222.9	244.8	283.0	311.5	319.4
67.5°	195.4	219.1	257.4	283.5	290.9
70°	169.2	194.0	230.8	255.0	258.3
72.5°	141.3	166.5	203.8	219.1	219.1
75°	116.1	141.7	176.2	179.0	176.7
77.5°	88.6	117.0	139.4	133.8	128.2
80°	63.9	91.9	102.1	91.9	84.4
82.5°	42.9	66.7	61.5	49.0	43.4
85°	23.8	35.4	24.2	13.5	9.8
87.5°	8.9	7.9	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)