

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: P274714

Luminaire Tested: **14CZ2-39-RDP-UNV-L950-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: P274714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-RDP-UNV-L950-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (112) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2287.0 lumens
Efficiency: N/A
Efficacy: 70.8 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

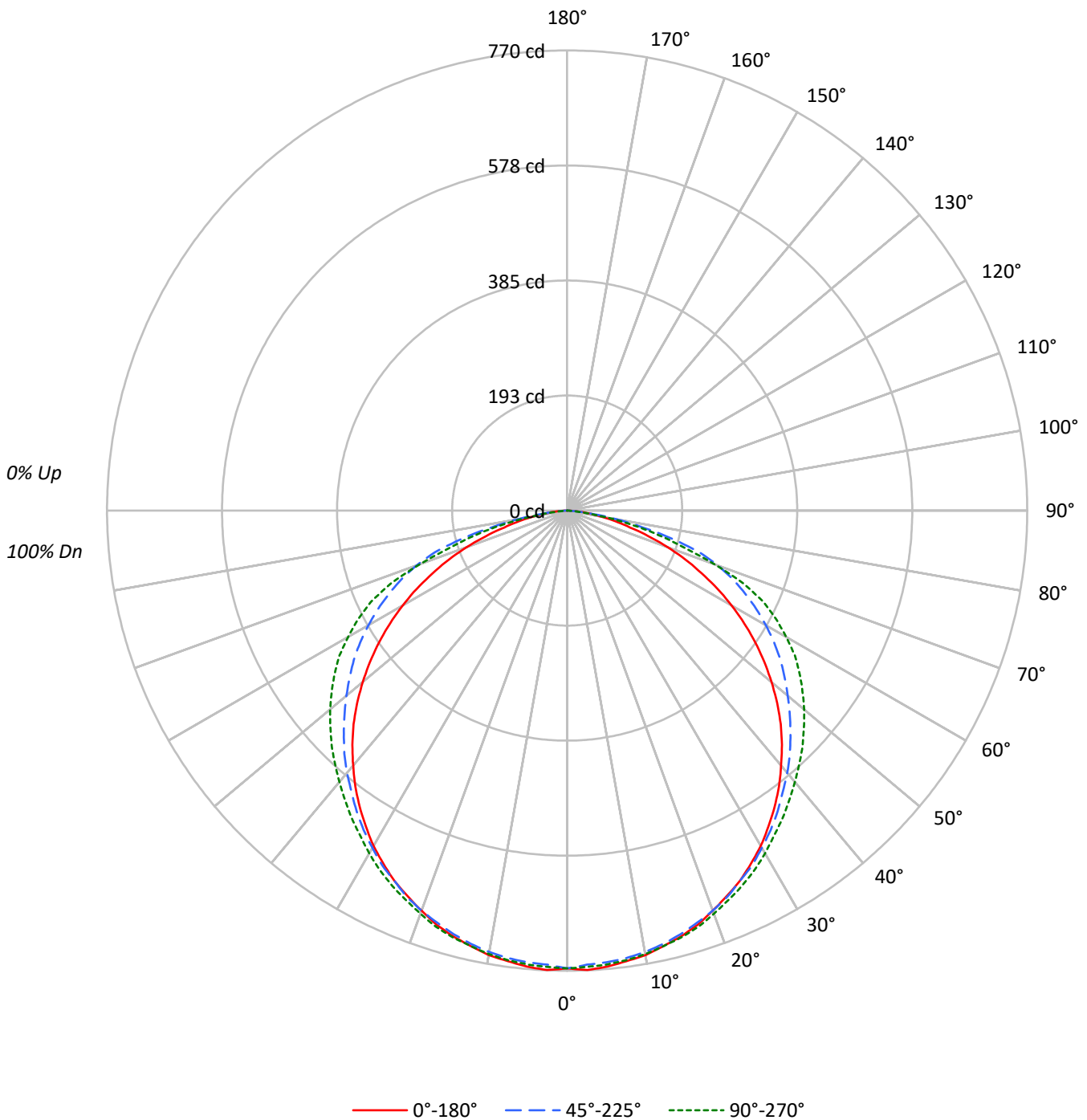
Input Watts (W): 32.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2061	2061	2061
5°	2069	2050	2059
10°	2064	2049	2059
15°	2054	2044	2059
20°	2040	2040	2056
25°	2030	2030	2057
30°	2014	2025	2058
35°	1988	2018	2065
40°	1957	2013	2082
45°	1923	2011	2120
50°	1869	2018	2168
55°	1801	2044	2228
60°	1710	2066	2278
65°	1580	2092	2308
70°	1404	2107	2065
75°	1132	1893	1652
80°	885	1328	1079
85°	605	386	275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	3.2
10°-20°	208.0	9.1
20°-30°	316.7	13.8
30°-40°	385.8	16.9
40°-50°	409.3	17.9
50°-60°	386.3	16.9
60°-70°	311.9	13.6
70°-80°	169.2	7.4
80°-90°	27.4	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°	597.2	26.1
0°-40°	983.0	43.0
0°-60°	1778.6	77.8
0°-90°	2287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	766	764	759	764	762	73
15°	737	736	734	739	739	208
25°	684	682	684	691	693	315
35°	605	609	614	627	628	378
45°	505	512	528	548	557	389
55°	384	400	436	464	475	343
65°	248	278	328	355	362	246
75°	109	159	182	164	159	119
85°	20	21	12	11	9	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.0	766.0	766.0	766.0	766.0
2.5°	769.5	766.0	760.6	766.0	764.2
5°	766.0	764.2	758.8	764.2	762.4
7.5°	760.6	760.6	755.3	758.8	758.8
10°	755.3	753.5	749.9	755.3	753.5
12.5°	746.3	744.5	742.8	748.1	746.3
15°	737.4	735.6	733.8	739.2	739.2
17.5°	726.7	724.9	723.1	730.3	730.3
20°	712.4	712.4	712.4	719.6	717.8
22.5°	698.1	698.1	699.9	707.1	705.3
25°	683.8	682.1	683.8	691.0	692.8
27.5°	666.0	667.8	669.6	676.7	678.5
30°	648.1	649.9	651.7	660.6	662.4
32.5°	626.7	630.3	633.8	644.6	644.6
35°	605.3	608.9	614.2	626.7	628.5
37.5°	582.1	585.6	592.8	607.1	610.6
40°	557.1	562.4	573.1	587.4	592.8
42.5°	532.1	539.2	551.7	567.8	574.9
45°	505.3	512.4	528.5	548.1	557.1
47.5°	476.7	485.7	505.3	530.3	537.4
50°	446.4	458.9	482.1	508.9	517.8
52.5°	416.0	430.3	458.9	487.4	496.4
55°	383.9	399.9	435.7	464.2	474.9
57.5°	351.7	369.6	410.7	441.0	451.7
60°	317.8	339.2	383.9	414.2	423.2
62.5°	283.9	308.9	357.1	387.5	394.6
65°	248.2	278.5	328.5	355.3	362.5
67.5°	214.3	250.0	300.0	319.6	319.6
70°	178.5	217.8	267.8	273.2	262.5
72.5°	142.8	187.5	232.1	212.5	203.5
75°	108.9	158.9	182.1	164.3	158.9
77.5°	82.1	128.6	128.6	117.8	114.3
80°	57.1	98.2	85.7	75.0	69.6
82.5°	37.5	55.4	44.6	35.7	30.4
85°	19.6	21.4	12.5	10.7	8.9
87.5°	7.1	3.6	1.8	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)