

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: P294800

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

Issue Date: 12/2/2019

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: P294800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-35-HRP-UNV-L935-CD1-U
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY ROUND PERF. LENS
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: 2273.4 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

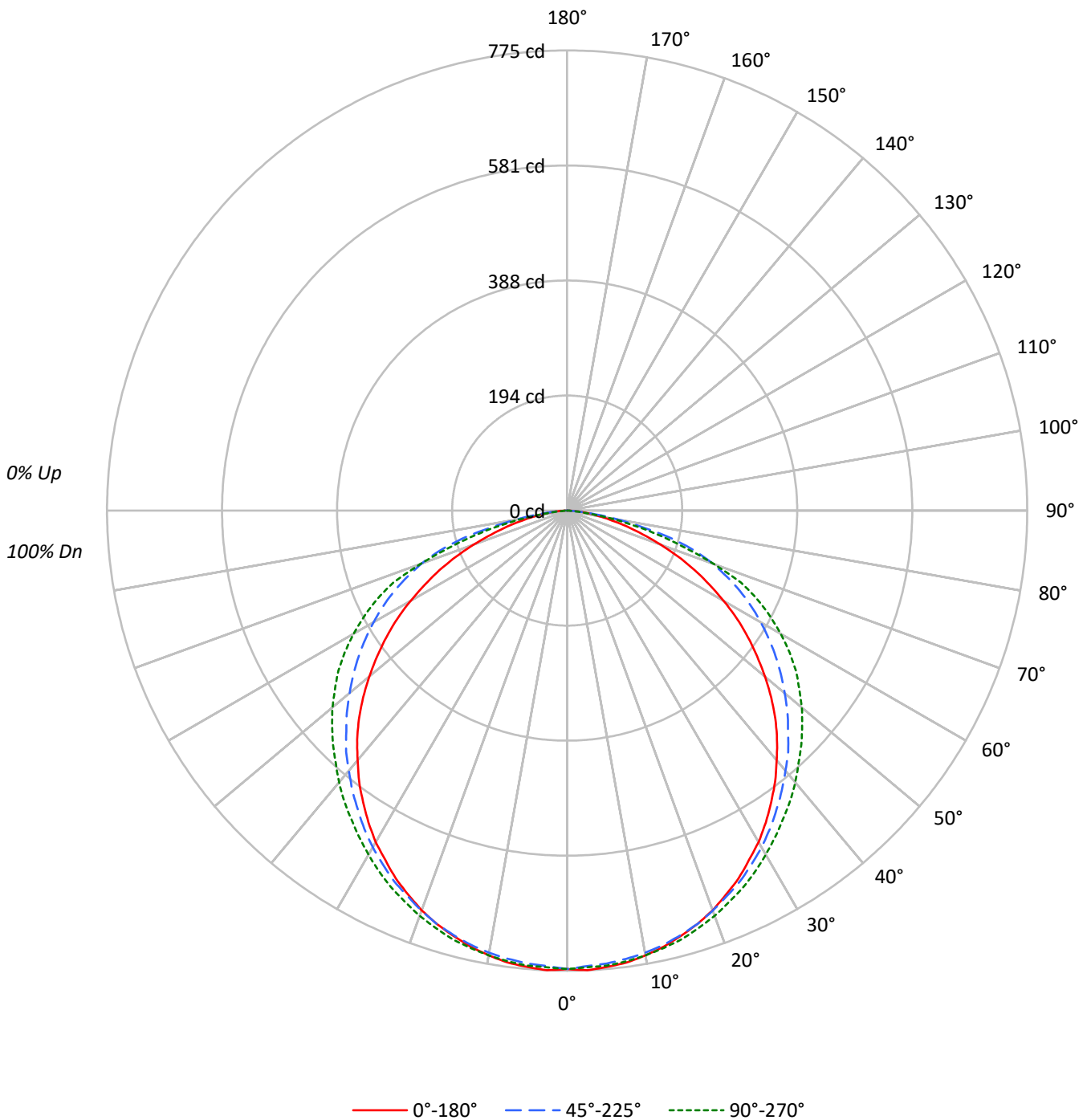
Input Watts (W): 31.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2078	2078	2078
5°	2084	2068	2078
10°	2078	2067	2078
15°	2065	2061	2081
20°	2051	2053	2080
25°	2029	2046	2080
30°	2004	2035	2079
35°	1968	2020	2083
40°	1929	2009	2099
45°	1888	2003	2122
50°	1823	2002	2161
55°	1744	2012	2207
60°	1639	2027	2235
65°	1511	2048	2249
70°	1316	2053	2070
75°	1085	1910	1672
80°	852	1373	1119
85°	661	531	266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.2
10°-20°	209.7	9.2
20°-30°	318.5	14.0
30°-40°	385.9	17.0
40°-50°	406.7	17.9
50°-60°	379.7	16.7
60°-70°	303.4	13.3
70°-80°	166.9	7.3
80°-90°	29.5	1.3
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°	601.3	26.5
0°-40°	987.3	43.4
0°-60°	1773.6	78.0
0°-90°	2273.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2273.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	771	769	766	771	769	73
15°	741	741	740	747	747	209
25°	683	685	689	699	701	315
35°	599	605	615	630	634	375
45°	496	505	526	550	558	382
55°	372	390	429	459	470	332
65°	237	267	322	348	353	234
75°	104	149	184	165	161	112
85°	21	27	17	11	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.1	772.1	772.1	772.1	772.1
2.5°	774.9	772.8	767.8	772.1	769.9
5°	771.4	769.2	765.6	770.6	769.2
7.5°	767.8	764.9	761.4	767.1	765.6
10°	760.6	758.5	756.3	761.4	760.6
12.5°	752.1	751.3	749.2	754.9	754.2
15°	741.3	741.3	739.9	747.1	747.1
17.5°	729.9	729.2	729.9	737.8	737.0
20°	716.3	716.3	717.0	726.3	726.3
22.5°	699.9	700.6	702.7	714.2	713.5
25°	683.4	684.9	689.1	699.2	700.6
27.5°	663.4	667.0	672.0	684.1	685.6
30°	644.8	647.0	654.8	666.3	669.1
32.5°	622.7	627.0	635.5	648.4	652.0
35°	599.1	604.8	614.8	630.5	634.1
37.5°	575.5	580.5	594.1	610.5	616.9
40°	549.0	557.6	571.9	590.5	597.6
42.5°	523.3	531.9	551.2	570.5	576.9
45°	496.1	505.4	526.2	549.7	557.6
47.5°	466.1	476.8	503.3	528.3	536.9
50°	435.4	448.9	478.3	506.1	516.1
52.5°	403.2	420.4	454.0	483.3	492.6
55°	371.7	390.3	428.9	459.0	470.4
57.5°	339.6	359.6	403.2	437.5	443.9
60°	304.5	328.8	376.7	406.8	415.3
62.5°	270.2	298.1	349.6	378.2	385.3
65°	237.3	267.4	321.7	348.1	353.2
67.5°	201.6	237.3	291.0	315.3	316.7
70°	167.3	208.7	260.9	272.4	263.1
72.5°	133.7	178.0	225.9	216.6	208.7
75°	104.4	149.4	183.7	165.1	160.8
77.5°	77.2	122.2	131.5	121.5	113.7
80°	55.0	96.5	88.6	75.8	72.2
82.5°	37.9	60.8	48.6	37.9	32.9
85°	21.4	27.2	17.2	10.7	8.6
87.5°	9.3	6.4	3.6	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)