

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: P294794

Luminaire Tested: **14CZ2-25-HRP-UNV-L950-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: P294794  
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: 14CZ2-25-HRP-UNV-L950-CD1-U  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY ROUND PERF. LENS  
Light Source: (84) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1701.3 lumens  
Efficiency: N/A  
Efficacy: 83.0 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

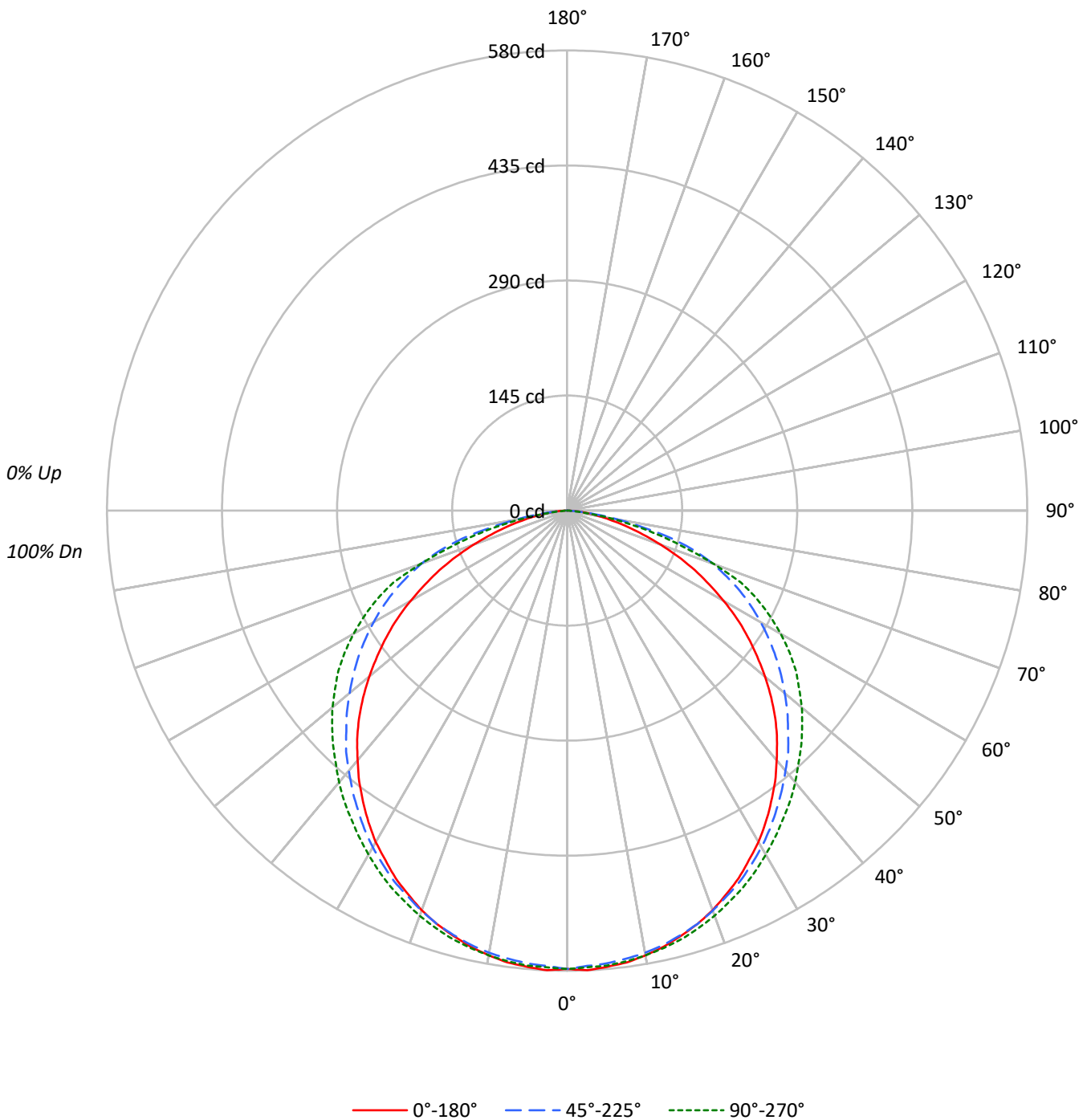
Input Watts (W): 20.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1555	1555	1555
5°	1559	1548	1555
10°	1555	1547	1555
15°	1546	1543	1557
20°	1535	1537	1556
25°	1518	1531	1557
30°	1499	1523	1556
35°	1473	1511	1559
40°	1443	1503	1571
45°	1413	1498	1588
50°	1364	1498	1617
55°	1305	1506	1651
60°	1227	1517	1673
65°	1131	1533	1683
70°	985	1537	1549
75°	812	1430	1252
80°	638	1027	837
85°	494	395	198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	3.2
10°-20°	157.0	9.2
20°-30°	238.3	14.0
30°-40°	288.8	17.0
40°-50°	304.3	17.9
50°-60°	284.1	16.7
60°-70°	227.0	13.3
70°-80°	124.9	7.3
80°-90°	22.1	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°	450.0	26.5
0°-40°	738.8	43.4
0°-60°	1327.2	78.0
0°-90°	1701.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1701.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	577	576	573	577	576	55
15°	555	555	554	559	559	157
25°	511	512	516	523	524	235
35°	448	453	460	472	474	280
45°	371	378	394	411	417	286
55°	278	292	321	343	352	248
65°	178	200	241	260	264	175
75°	78	112	138	124	120	84
85°	16	20	13	8	6	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	577.8	577.8	577.8	577.8	577.8
2.5°	579.9	578.3	574.5	577.8	576.2
5°	577.2	575.6	572.9	576.7	575.6
7.5°	574.5	572.4	569.7	574.0	572.9
10°	569.2	567.6	566.0	569.7	569.2
12.5°	562.8	562.2	560.6	564.9	564.4
15°	554.8	554.8	553.7	559.0	559.0
17.5°	546.2	545.7	546.2	552.1	551.5
20°	536.0	536.0	536.6	543.5	543.5
22.5°	523.7	524.3	525.9	534.4	533.9
25°	511.4	512.5	515.7	523.2	524.3
27.5°	496.4	499.1	502.9	512.0	513.0
30°	482.5	484.1	490.0	498.6	500.7
32.5°	465.9	469.2	475.6	485.2	487.9
35°	448.3	452.6	460.1	471.8	474.5
37.5°	430.6	434.4	444.6	456.9	461.7
40°	410.8	417.3	428.0	441.9	447.2
42.5°	391.6	398.0	412.5	426.9	431.7
45°	371.3	378.2	393.7	411.4	417.3
47.5°	348.8	356.8	376.6	395.3	401.8
50°	325.8	336.0	357.9	378.8	386.2
52.5°	301.7	314.6	339.7	361.6	368.6
55°	278.2	292.1	321.0	343.4	352.0
57.5°	254.1	269.1	301.7	327.4	332.2
60°	227.9	246.1	281.9	304.4	310.8
62.5°	202.2	223.1	261.6	283.0	288.3
65°	177.6	200.1	240.7	260.5	264.3
67.5°	150.9	177.6	217.7	235.9	237.0
70°	125.2	156.2	195.3	203.8	196.9
72.5°	100.0	133.2	169.0	162.1	156.2
75°	78.1	111.8	137.5	123.6	120.4
77.5°	57.8	91.5	98.4	90.9	85.1
80°	41.2	72.2	66.3	56.7	54.0
82.5°	28.4	45.5	36.4	28.4	24.6
85°	16.0	20.3	12.8	8.0	6.4
87.5°	7.0	4.8	2.7	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)