

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: P271933

Luminaire Tested: **14CZ2-25-S-UNV-L930-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: P271933  
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: 14CZ2-25-S-UNV-L930-CD1-U  
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 90CRI  
Light Source: (84) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

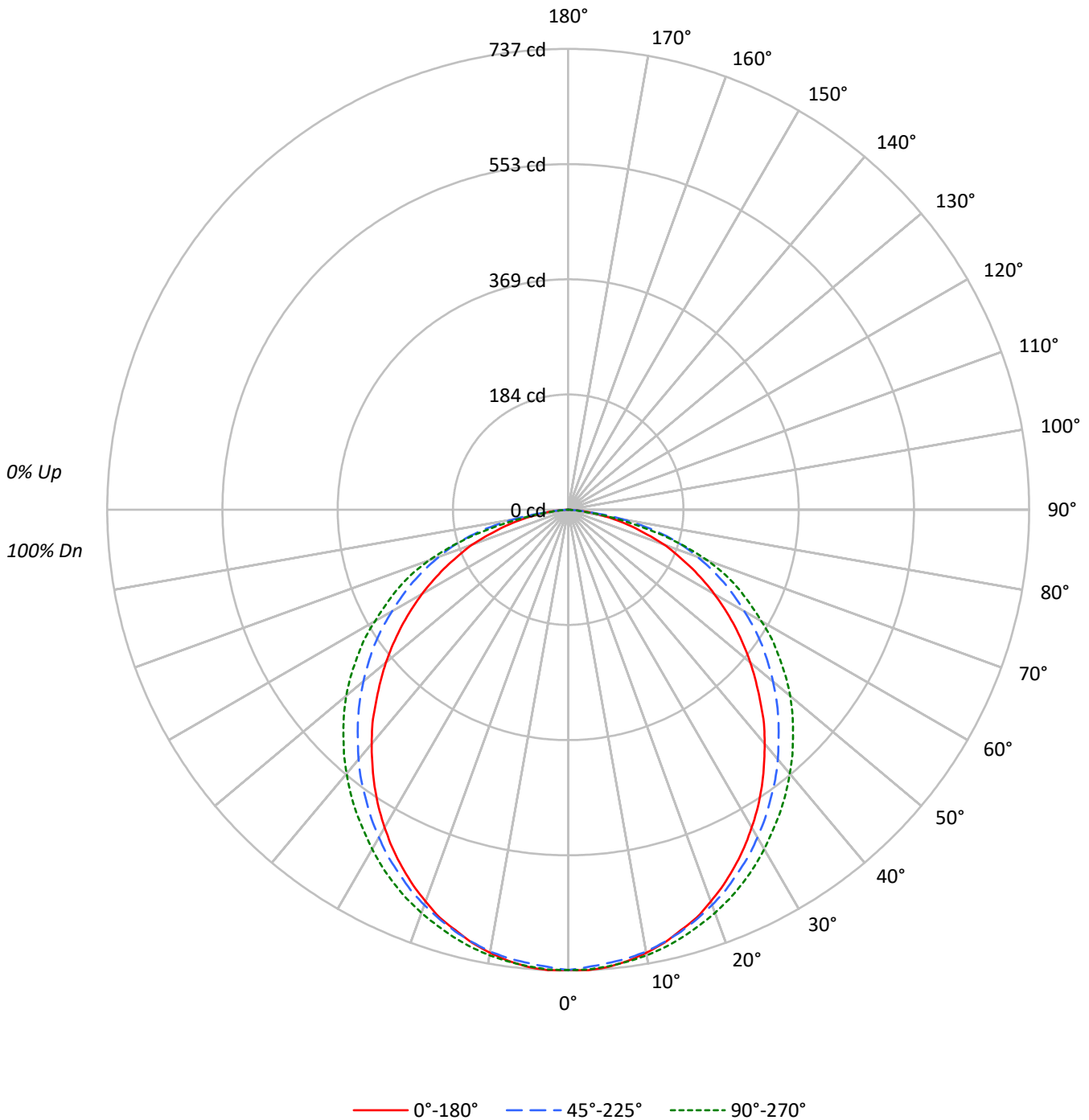
Lumens per Lamp: N/A  
Luminaire Lumens: 2062.0 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1981	1981	1981
5°	1983	1966	1980
10°	1967	1961	1978
15°	1940	1945	1971
20°	1909	1926	1964
25°	1870	1903	1958
30°	1823	1881	1947
35°	1773	1854	1941
40°	1717	1832	1936
45°	1654	1809	1934
50°	1592	1789	1939
55°	1525	1775	1933
60°	1453	1750	1920
65°	1367	1745	1920
70°	1287	1729	1866
75°	1116	1691	1595
80°	903	1362	1062
85°	599	472	315



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.5	3.4
10°-20°	197.8	9.6
20°-30°	296.7	14.4
30°-40°	353.9	17.2
40°-50°	365.9	17.7
50°-60°	334.1	16.2
60°-70°	262.9	12.7
70°-80°	153.0	7.4
80°-90°	28.2	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°	564.0	27.4
0°-40°	917.9	44.5
0°-60°	1617.9	78.5
0°-90°	2062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2062.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	734	732	728	734	733	70
15°	696	697	698	708	708	196
25°	630	633	641	656	659	290
35°	540	547	564	586	591	337
45°	434	449	475	502	508	336
55°	325	342	378	406	412	291
65°	215	237	274	296	302	213
75°	107	133	163	160	153	114
85°	19	28	15	12	10	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	736.1	736.1	736.1	736.1	736.1
2.5°	737.1	735.1	732.0	737.1	736.1
5°	734.1	732.0	727.9	734.1	733.0
7.5°	727.9	725.9	723.8	730.0	728.9
10°	719.7	718.7	717.7	724.9	723.8
12.5°	709.5	709.5	708.5	716.7	716.7
15°	696.2	697.3	698.3	707.5	707.5
17.5°	684.0	682.9	686.0	696.2	697.3
20°	666.6	668.6	672.7	685.0	686.0
22.5°	649.2	651.2	658.4	670.7	673.7
25°	629.8	632.8	641.0	656.4	659.4
27.5°	609.3	613.4	624.7	641.0	644.1
30°	586.8	593.0	605.2	623.6	626.7
32.5°	564.3	570.5	585.8	604.2	608.3
35°	539.8	547.0	564.3	585.8	590.9
37.5°	514.2	523.4	543.9	565.4	571.5
40°	488.7	498.9	521.4	543.9	551.1
42.5°	463.1	473.4	497.9	523.4	530.6
45°	434.5	448.8	475.4	502.0	508.1
47.5°	406.9	422.2	451.9	478.5	486.6
50°	380.3	395.7	427.3	455.0	463.1
52.5°	352.7	369.1	402.8	431.4	438.6
55°	325.1	342.5	378.3	405.9	412.0
57.5°	297.5	315.9	352.7	379.3	386.5
60°	269.9	289.3	325.1	351.7	356.8
62.5°	242.3	262.7	299.6	323.1	328.2
65°	214.7	237.2	274.0	295.5	301.6
67.5°	188.1	210.6	246.4	266.8	271.9
70°	163.6	184.0	219.8	235.1	237.2
72.5°	132.9	158.5	193.2	201.4	196.3
75°	107.3	132.9	162.6	159.5	153.4
77.5°	81.8	107.3	126.8	116.5	108.4
80°	58.3	83.8	87.9	72.6	68.5
82.5°	37.8	58.3	49.1	37.8	30.7
85°	19.4	27.6	15.3	12.3	10.2
87.5°	6.1	4.1	2.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)