

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: P475367

Luminaire Tested: **14CZ2-60HE-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475367  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-60HE-UNV-L840-CD1-U  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY,RIBBED LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6083.2 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.29 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

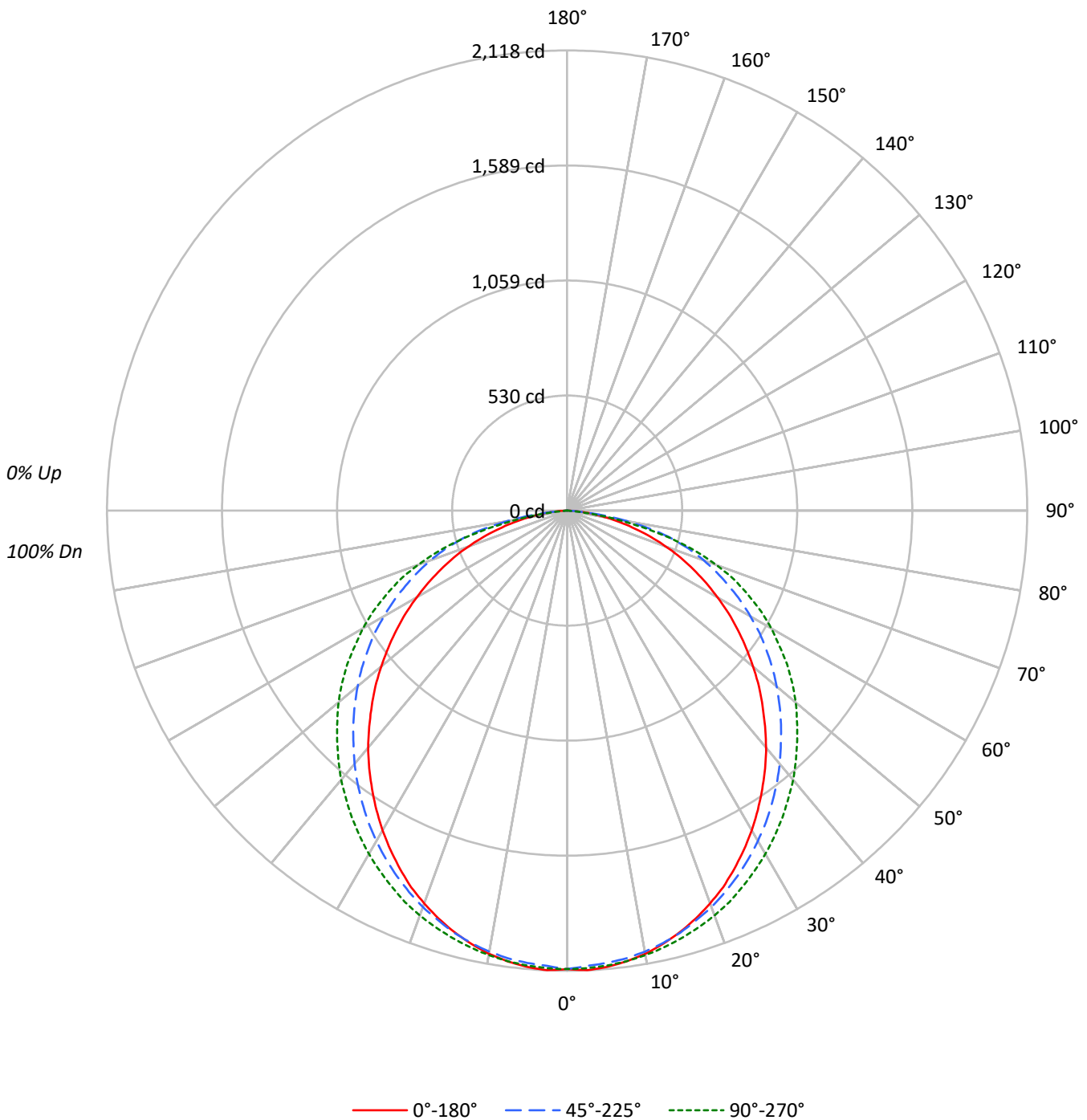
Input Watts (W): 44.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
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	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	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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

	0°	45°	90°
0°	5679	5679	5679
5°	5695	5646	5679
10°	5661	5633	5677
15°	5595	5604	5675
20°	5509	5562	5679
25°	5404	5510	5673
30°	5281	5455	5671
35°	5142	5399	5671
40°	5004	5348	5684
45°	4840	5297	5697
50°	4675	5273	5750
55°	4499	5249	5799
60°	4300	5243	5841
65°	4082	5230	5852
70°	3800	5260	5740
75°	3369	5191	5149
80°	2827	4342	3505
85°	1982	1698	408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.6	3.3
10°-20°	569.9	9.4
20°-30°	858.7	14.1
30°-40°	1030.7	16.9
40°-50°	1073.0	17.6
50°-60°	991.5	16.3
60°-70°	794.1	13.1
70°-80°	475.1	7.8
80°-90°	90.6	1.5
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°	1628.2	26.8
0°-40°	2658.9	43.7
0°-60°	4723.3	77.6
0°-90°	6083.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6083.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2108	2103	2090	2105	2102	200
15°	2008	2008	2012	2037	2037	566
25°	1820	1830	1856	1902	1911	838
35°	1565	1589	1644	1709	1726	979
45°	1272	1309	1392	1474	1497	982
55°	959	1011	1119	1206	1236	858
65°	641	707	821	902	919	636
75°	324	406	499	506	495	346
85°	64	94	55	22	13	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2110.3	2110.3	2110.3	2110.3	2110.3
2.5°	2117.5	2111.4	2098.1	2111.4	2108.3
5°	2108.3	2103.2	2090.0	2105.3	2102.2
7.5°	2093.0	2088.9	2078.8	2095.1	2092.0
10°	2071.6	2068.6	2061.4	2079.8	2077.7
12.5°	2042.1	2043.1	2039.0	2061.4	2059.4
15°	2008.4	2008.4	2011.5	2037.0	2037.0
17.5°	1968.7	1970.7	1976.9	2010.5	2011.5
20°	1923.9	1929.0	1942.2	1976.9	1983.0
22.5°	1876.0	1882.1	1900.4	1941.2	1950.4
25°	1819.9	1830.1	1855.6	1902.5	1910.6
27.5°	1760.8	1776.1	1807.7	1858.7	1868.8
30°	1699.7	1716.0	1755.7	1810.8	1825.0
32.5°	1633.5	1654.9	1702.7	1760.8	1777.1
35°	1565.2	1588.6	1643.6	1708.9	1726.2
37.5°	1496.9	1522.4	1584.5	1654.9	1672.2
40°	1424.6	1454.1	1522.4	1594.7	1618.2
42.5°	1348.1	1380.7	1456.2	1535.6	1558.1
45°	1271.7	1309.4	1392.0	1474.5	1496.9
47.5°	1197.3	1236.0	1325.7	1411.3	1434.8
50°	1116.8	1161.7	1259.5	1344.1	1373.6
52.5°	1038.4	1088.3	1191.2	1276.8	1306.4
55°	958.9	1010.8	1118.9	1205.5	1236.0
57.5°	881.4	936.5	1050.6	1136.2	1157.6
60°	798.9	859.0	974.2	1060.8	1085.2
62.5°	721.5	783.6	899.8	983.3	1006.8
65°	641.0	707.2	821.3	901.8	919.1
67.5°	565.5	631.8	746.9	816.2	833.5
70°	483.0	556.4	668.5	727.6	729.6
72.5°	404.5	478.9	588.0	625.7	620.6
75°	324.0	405.6	499.3	506.4	495.2
77.5°	251.7	333.2	397.4	375.0	352.6
80°	182.4	261.9	280.2	245.6	226.2
82.5°	120.2	183.4	169.2	121.3	103.9
85°	64.2	93.7	55.0	22.4	13.2
87.5°	24.5	16.3	6.1	5.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)