

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: P475358

Luminaire Tested: **14CZ2-60HE-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475358  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-60HE-UNV-L835-CD1-U  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY,RIBBED LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

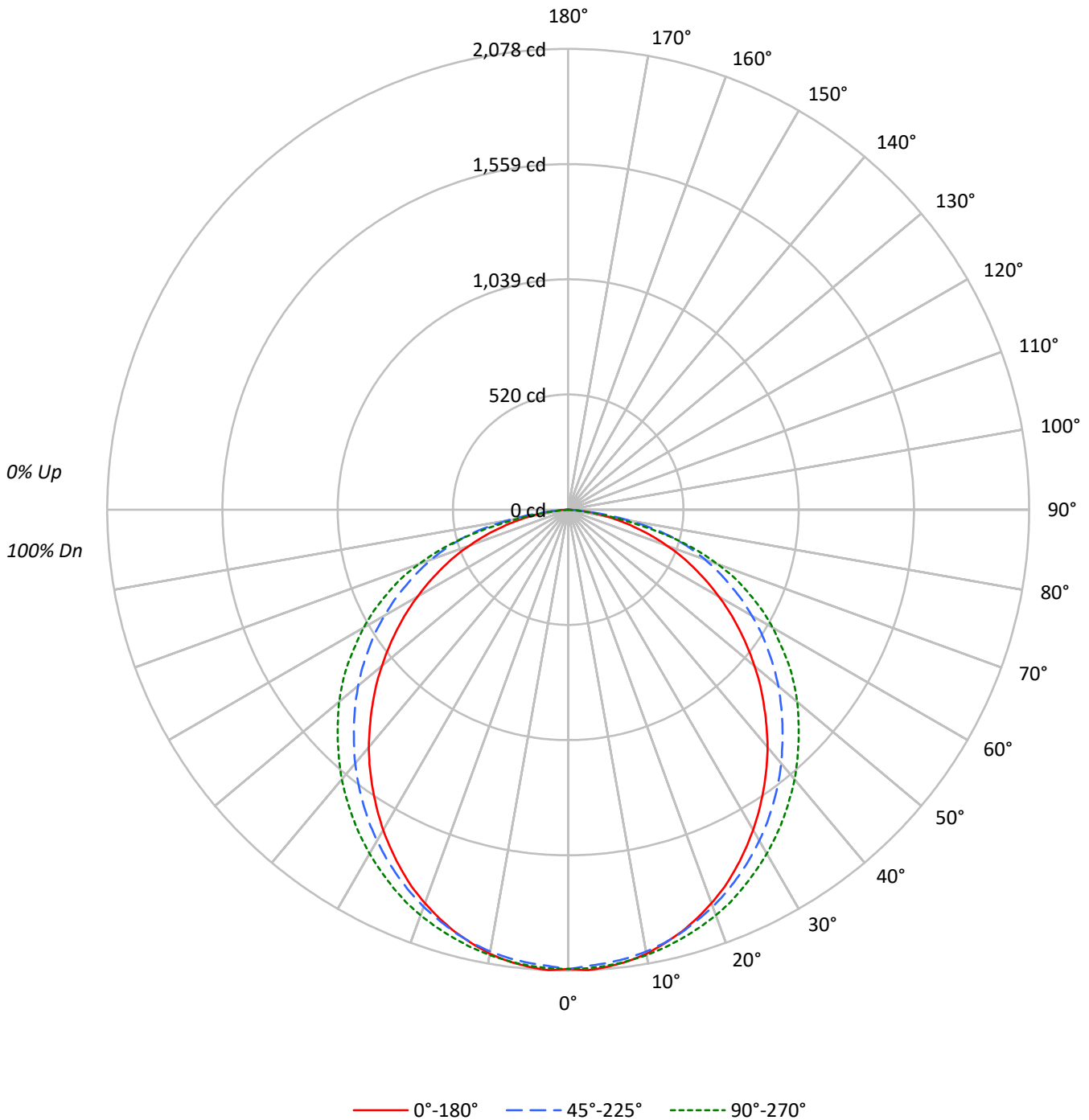
Lumens per Lamp: N/A  
Luminaire Lumens: 5969.8 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.29 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 44.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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°	5573	5573	5573
5°	5589	5540	5573
10°	5555	5528	5572
15°	5491	5499	5569
20°	5407	5458	5573
25°	5303	5407	5567
30°	5183	5354	5565
35°	5046	5299	5565
40°	4911	5248	5578
45°	4749	5198	5590
50°	4588	5174	5643
55°	4415	5151	5691
60°	4219	5145	5732
65°	4005	5132	5743
70°	3729	5161	5633
75°	3306	5095	5053
80°	2774	4262	3440
85°	1945	1667	401



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.9	3.3
10°-20°	559.2	9.4
20°-30°	842.7	14.1
30°-40°	1011.5	16.9
40°-50°	1053.0	17.6
50°-60°	973.0	16.3
60°-70°	779.3	13.1
70°-80°	466.3	7.8
80°-90°	88.9	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°	1597.8	26.8
0°-40°	2609.3	43.7
0°-60°	4635.3	77.6
0°-90°	5969.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5969.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2071	2071	2071	2071	2071	
5°	2069	2064	2051	2066	2063	196
15°	1971	1971	1974	1999	1999	555
25°	1786	1796	1821	1867	1875	822
35°	1536	1559	1613	1677	1694	961
45°	1248	1285	1366	1447	1469	964
55°	941	992	1098	1183	1213	842
65°	629	694	806	885	902	624
75°	318	398	490	497	486	340
85°	63	92	54	22	13	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2071	2071	2071	2071	2071
2.5°	2078	2072	2059	2072	2069
5°	2069	2064	2051	2066	2063
7.5°	2054	2050	2040	2056	2053
10°	2033	2030	2023	2041	2039
12.5°	2004	2005	2001	2023	2021
15°	1971	1971	1974	1999	1999
17.5°	1932	1934	1940	1973	1974
20°	1888	1893	1906	1940	1946
22.5°	1841	1847	1865	1905	1914
25°	1786	1796	1821	1867	1875
27.5°	1728	1743	1774	1824	1834
30°	1668	1684	1723	1777	1791
32.5°	1603	1624	1671	1728	1744
35°	1536	1559	1613	1677	1694
37.5°	1469	1494	1555	1624	1641
40°	1398	1427	1494	1565	1588
42.5°	1323	1355	1429	1507	1529
45°	1248	1285	1366	1447	1469
47.5°	1175	1213	1301	1385	1408
50°	1096	1140	1236	1319	1348
52.5°	1019	1068	1169	1253	1282
55°	941	992	1098	1183	1213
57.5°	865	919	1031	1115	1136
60°	784	843	956	1041	1065
62.5°	708	769	883	965	988
65°	629	694	806	885	902
67.5°	555	620	733	801	818
70°	474	546	656	714	716
72.5°	397	470	577	614	609
75°	318	398	490	497	486
77.5°	247	327	390	368	346
80°	179	257	275	241	222
82.5°	118	180	166	119	102
85°	63	92	54	22	13
87.5°	24	16	6	5	4
90°	0	0	0	0	0

(END OF REPORT)