

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: P476220

Luminaire Tested: **14GR-LD5-43-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476220  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-43-F125-UNV-L835-CD1-U  
Description: GR 1'X4' LED TROFFER w/ F125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4331.2 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

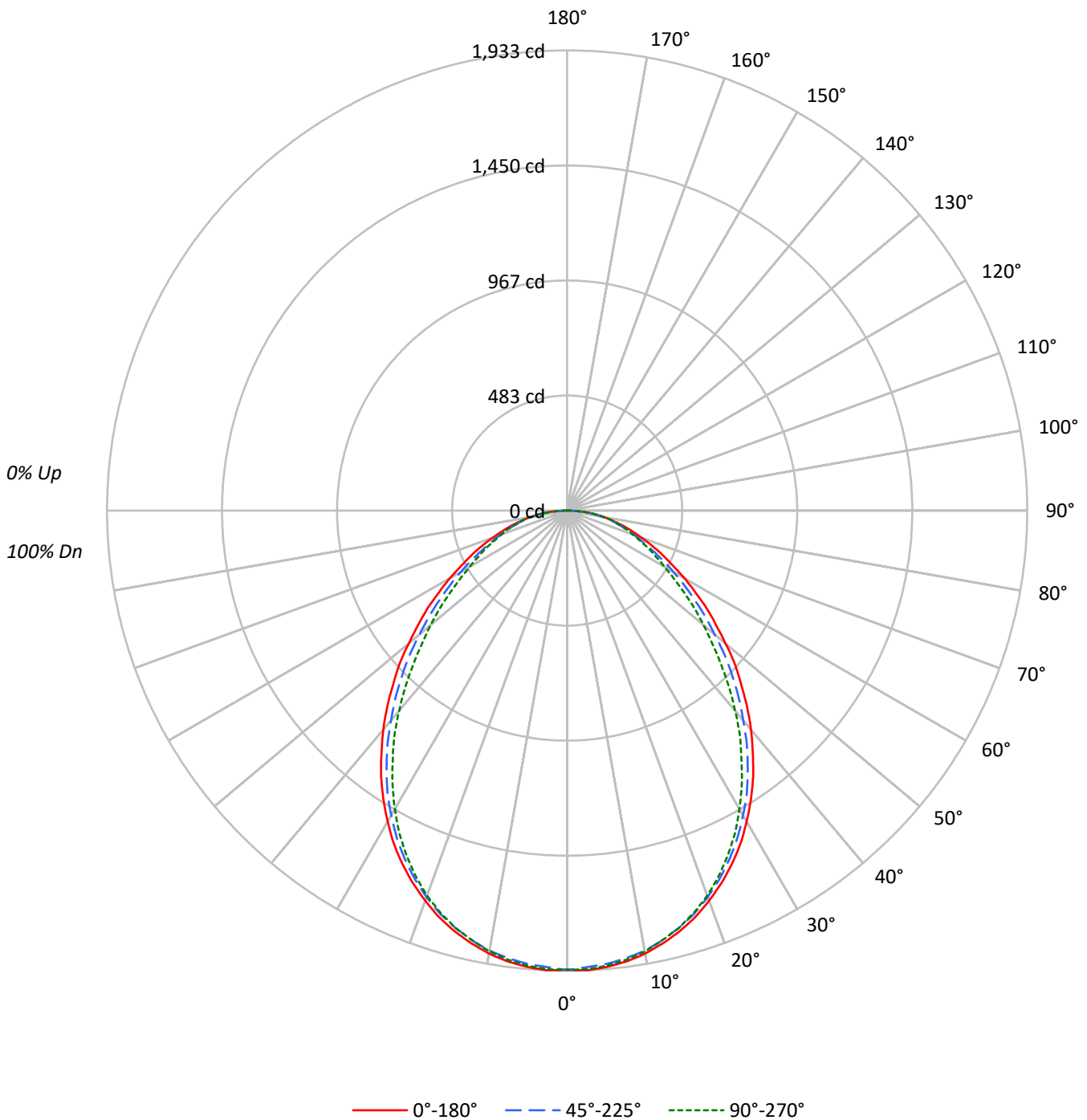
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

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

	0°	45°	90°
0°	5191	5191	5191
5°	5198	5163	5182
10°	5163	5128	5139
15°	5096	5054	5054
20°	4994	4946	4929
25°	4863	4793	4742
30°	4686	4593	4498
35°	4476	4346	4196
40°	4222	4045	3857
45°	3937	3733	3481
50°	3638	3385	3132
55°	3356	3068	2817
60°	3061	2773	2544
65°	2814	2517	2404
70°	2611	2354	2308
75°	2493	2287	2328
80°	2441	2303	2427
85°	2507	2263	2418



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.0	4.2
10°-20°	512.3	11.8
20°-30°	743.2	17.2
30°-40°	825.2	19.1
40°-50°	755.0	17.4
50°-60°	588.1	13.6
60°-70°	401.8	9.3
70°-80°	240.0	5.5
80°-90°	83.5	1.9
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°	1437.6	33.2
0°-40°	2262.8	52.2
0°-60°	3605.9	83.3
0°-90°	4331.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4331.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1924	1920	1911	1921	1918	183
15°	1829	1824	1814	1821	1814	515
25°	1638	1631	1614	1609	1597	753
35°	1362	1350	1323	1295	1277	850
45°	1034	1021	981	935	915	799
55°	715	694	654	615	600	639
65°	442	425	395	378	378	440
75°	240	230	220	224	224	254
85°	81	77	73	80	78	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1929.2	1929.2	1929.2	1929.2	1929.2
2.5°	1933.1	1928.2	1919.3	1929.2	1928.2
5°	1924.2	1920.3	1911.3	1921.3	1918.3
7.5°	1910.4	1906.4	1896.5	1907.4	1903.4
10°	1889.5	1884.6	1876.7	1884.6	1880.6
12.5°	1861.8	1856.9	1848.9	1855.9	1848.9
15°	1829.1	1824.2	1814.2	1821.2	1814.2
17.5°	1790.5	1783.5	1775.6	1776.6	1770.6
20°	1743.9	1737.0	1727.0	1727.0	1721.1
22.5°	1693.4	1686.4	1674.5	1670.6	1662.6
25°	1637.9	1630.9	1614.1	1609.1	1597.2
27.5°	1577.4	1566.5	1549.7	1538.8	1526.9
30°	1508.1	1499.2	1478.3	1462.5	1447.6
32.5°	1437.7	1428.8	1405.0	1381.2	1365.4
35°	1362.4	1350.5	1322.8	1295.0	1277.2
37.5°	1281.2	1271.3	1239.6	1205.9	1192.0
40°	1201.9	1189.0	1151.4	1116.7	1097.9
42.5°	1118.7	1104.8	1067.1	1027.5	1006.7
45°	1034.4	1020.6	980.9	935.4	914.6
47.5°	956.2	938.3	896.7	851.1	826.4
50°	869.0	854.1	808.5	764.9	748.1
52.5°	787.7	773.9	731.2	688.6	672.8
55°	715.4	693.6	654.0	615.3	600.5
57.5°	638.1	620.3	582.6	546.0	531.1
60°	568.7	554.9	515.2	483.5	472.6
62.5°	500.4	489.5	452.8	429.0	422.1
65°	441.9	425.1	395.3	377.5	377.5
67.5°	386.4	369.6	343.8	336.9	330.9
70°	331.9	319.1	299.2	293.3	293.3
72.5°	283.4	272.5	258.6	256.6	260.6
75°	239.8	229.9	220.0	223.9	223.9
77.5°	196.2	189.3	185.3	187.3	191.2
80°	157.5	152.6	148.6	153.6	156.6
82.5°	120.9	115.9	113.0	119.9	118.9
85°	81.2	77.3	73.3	80.3	78.3
87.5°	40.6	38.6	31.7	35.7	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)