

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: P476319

Luminaire Tested: **14GR-LD5-43-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476319
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A125-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4196.3 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

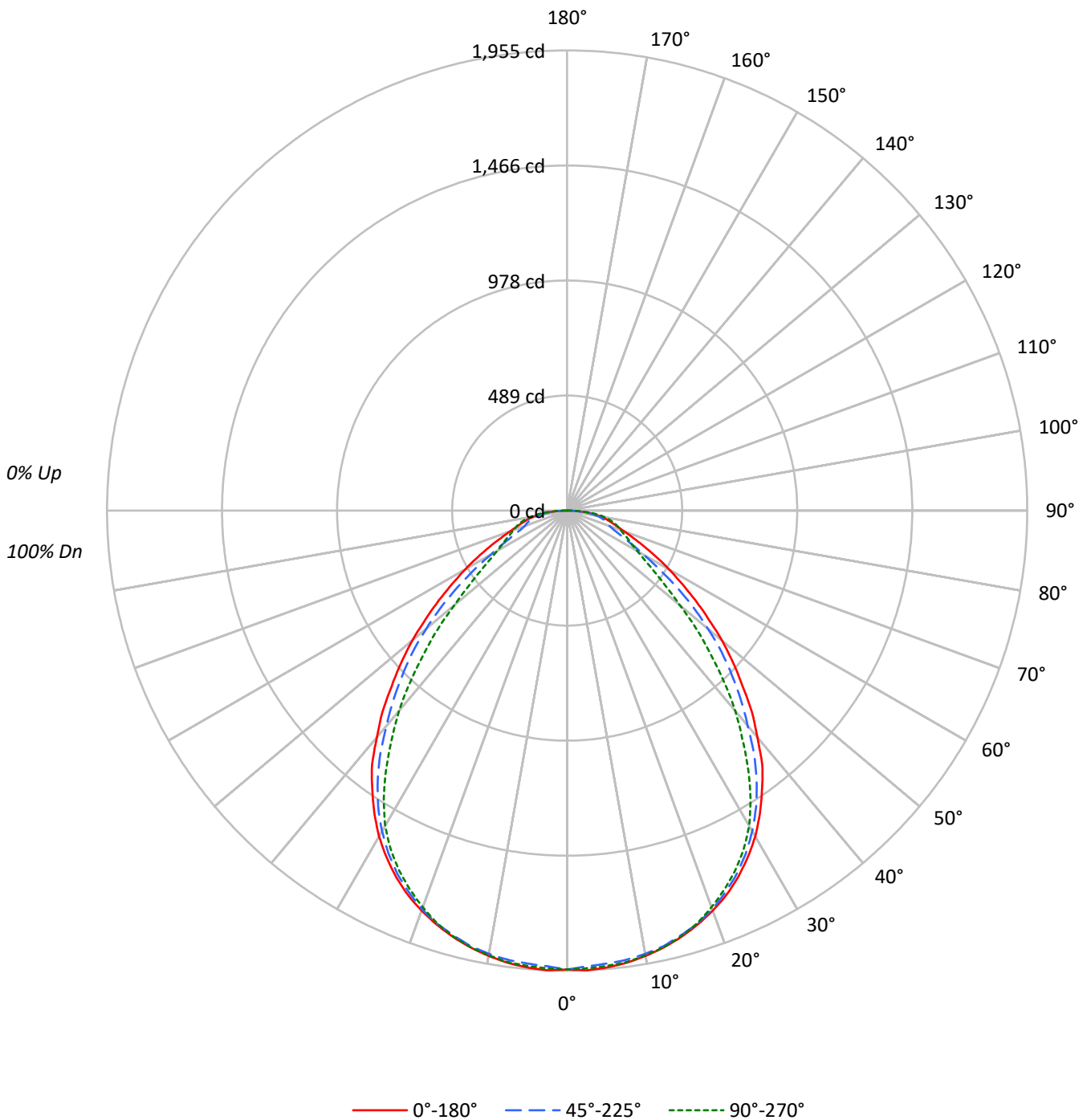
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5246	5246	5246
5°	5263	5218	5245
10°	5249	5225	5241
15°	5224	5205	5216
20°	5180	5161	5135
25°	5102	5061	5012
30°	4966	4887	4806
35°	4744	4613	4405
40°	4416	4193	3905
45°	4012	3771	3273
50°	3592	3274	2609
55°	3120	2672	2118
60°	2693	2020	1848
65°	2304	1614	1813
70°	2033	1504	1902
75°	2027	1724	2170
80°	2191	2010	2493
85°	2350	2137	2859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	4.4
10°-20°	528.2	12.6
20°-30°	783.6	18.7
30°-40°	870.2	20.7
40°-50°	750.5	17.9
50°-60°	509.0	12.1
60°-70°	294.3	7.0
70°-80°	192.1	4.6
80°-90°	83.8	2.0
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°	1496.4	35.7
0°-40°	2366.6	56.4
0°-60°	3626.1	86.4
0°-90°	4196.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4196.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1949	1949	1949	1949	1949	
5°	1948	1941	1932	1946	1942	185
15°	1875	1871	1868	1881	1872	529
25°	1718	1716	1705	1700	1688	790
35°	1444	1431	1404	1365	1341	900
45°	1054	1038	991	909	860	815
55°	665	651	570	485	452	598
65°	362	321	254	259	285	364
75°	195	176	166	185	209	208
85°	76	74	69	96	93	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1949.4	1949.4	1949.4	1949.4	1949.4
2.5°	1955.2	1948.4	1937.7	1949.4	1946.4
5°	1948.4	1940.6	1931.8	1945.5	1941.6
7.5°	1937.7	1929.9	1925.0	1936.7	1934.7
10°	1921.1	1915.2	1912.3	1926.9	1918.1
12.5°	1900.6	1895.7	1894.7	1906.4	1899.6
15°	1875.2	1871.3	1868.4	1881.1	1872.3
17.5°	1844.0	1842.1	1840.1	1846.0	1838.2
20°	1808.9	1807.0	1802.1	1803.1	1793.3
22.5°	1768.0	1766.0	1756.3	1754.3	1743.6
25°	1718.2	1716.3	1704.6	1699.7	1688.0
27.5°	1661.7	1662.7	1643.2	1634.4	1623.6
30°	1598.3	1594.4	1572.9	1558.3	1546.6
32.5°	1524.2	1519.3	1494.0	1470.5	1450.1
35°	1444.2	1430.6	1404.2	1365.2	1340.9
37.5°	1362.3	1343.8	1304.8	1255.0	1222.9
40°	1257.0	1237.5	1193.6	1137.0	1111.7
42.5°	1162.4	1141.9	1093.2	1026.8	986.9
45°	1054.2	1037.6	990.8	908.9	860.1
47.5°	955.7	938.1	890.3	793.8	746.0
50°	858.1	838.6	782.1	677.7	623.1
52.5°	756.7	746.0	676.8	572.4	528.5
55°	665.1	651.4	569.5	484.7	451.5
57.5°	577.3	554.9	466.1	402.7	390.1
60°	500.3	469.1	375.4	340.3	343.3
62.5°	427.1	390.1	308.2	291.6	308.2
65°	361.8	320.8	253.5	259.4	284.7
67.5°	304.3	265.2	215.5	238.9	260.4
70°	258.4	226.2	191.1	217.5	241.8
72.5°	221.4	199.9	179.4	199.9	226.2
75°	195.0	176.5	165.8	185.3	208.7
77.5°	170.7	156.0	151.2	166.8	186.3
80°	141.4	134.6	129.7	150.2	160.9
82.5°	109.2	106.3	102.4	127.7	132.6
85°	76.1	74.1	69.2	96.5	92.6
87.5°	40.0	38.0	35.1	50.7	45.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)