

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: P476292

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476292
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4201.1 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

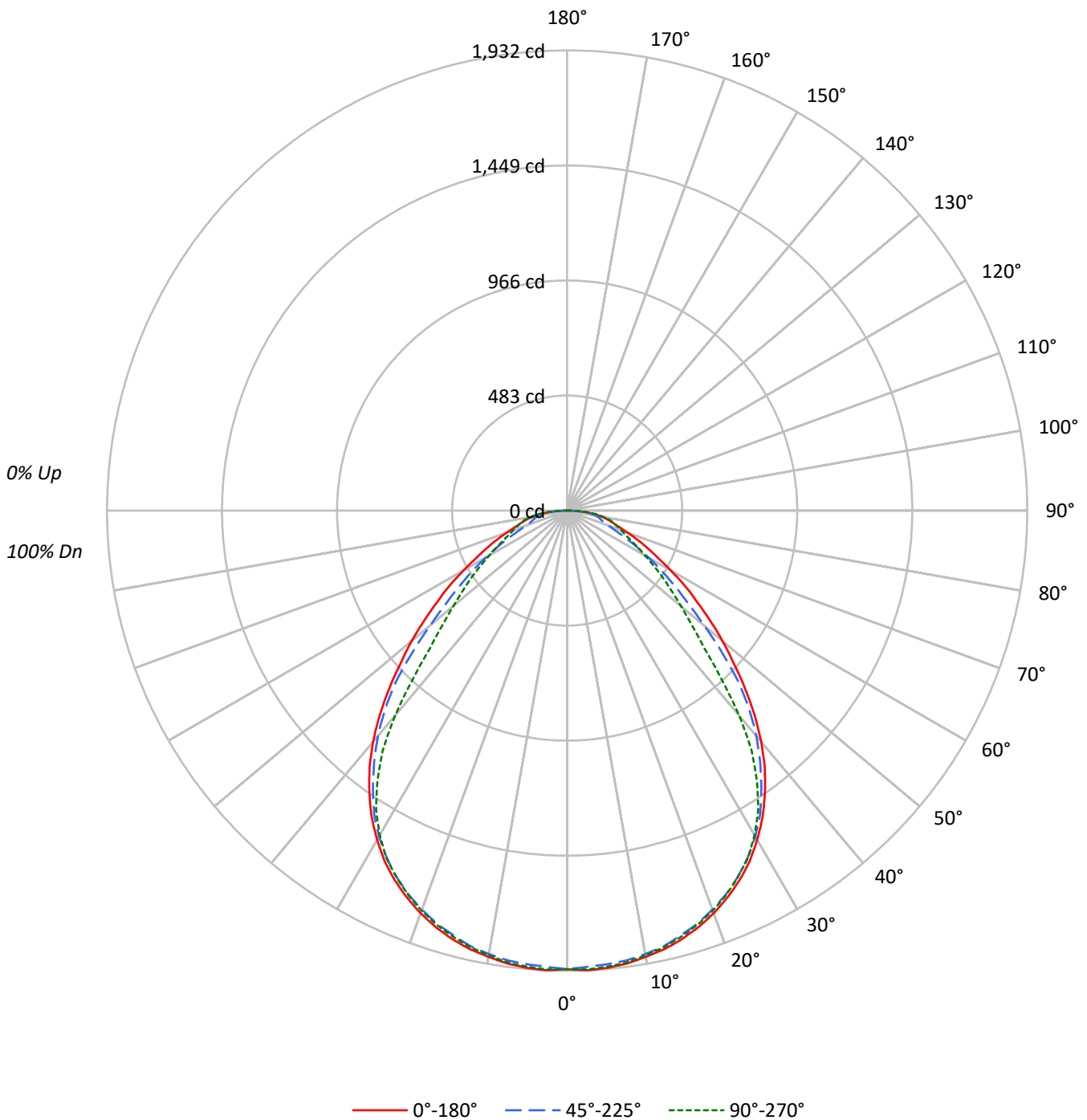
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6487	6487	6487
5°	6518	6469	6501
10°	6510	6470	6487
15°	6498	6440	6460
20°	6452	6392	6410
25°	6367	6305	6309
30°	6211	6146	6120
35°	5956	5848	5715
40°	5575	5434	4945
45°	5035	4845	3864
50°	4466	3933	3268
55°	3897	3228	2883
60°	3379	2656	2545
65°	2964	2131	2350
70°	2643	1808	2365
75°	2579	1907	2643
80°	2858	2404	3029
85°	2977	2567	3549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	4.3
10°-20°	523.3	12.5
20°-30°	782.7	18.6
30°-40°	883.6	21.0
40°-50°	749.6	17.8
50°-60°	507.2	12.1
60°-70°	302.7	7.2
70°-80°	189.6	4.5
80°-90°	79.7	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°	1488.6	35.4
0°-40°	2372.2	56.5
0°-60°	3629.0	86.4
0°-90°	4201.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4201.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1925	1925	1925	1925	1925	
5°	1927	1921	1912	1926	1922	183
15°	1863	1859	1846	1859	1852	525
25°	1712	1707	1696	1704	1697	787
35°	1448	1438	1422	1409	1389	902
45°	1057	1061	1017	871	811	814
55°	663	632	549	492	491	598
65°	372	308	267	285	295	372
75°	198	177	146	193	203	213
85°	77	73	66	86	92	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1925.2	1925.2	1925.2	1925.2	1925.2
2.5°	1932.0	1926.0	1917.2	1929.1	1928.1
5°	1927.0	1921.3	1912.5	1926.0	1922.1
7.5°	1918.2	1913.3	1904.7	1917.2	1913.3
10°	1902.7	1898.8	1891.0	1901.6	1895.9
12.5°	1886.1	1883.2	1873.4	1883.2	1877.3
15°	1862.7	1858.8	1846.1	1858.8	1851.9
17.5°	1833.4	1828.5	1817.9	1828.5	1822.6
20°	1799.2	1793.5	1782.6	1793.5	1787.6
22.5°	1758.3	1753.3	1743.7	1753.3	1745.6
25°	1712.4	1706.6	1695.8	1703.6	1696.8
27.5°	1659.7	1652.0	1642.1	1648.1	1644.2
30°	1596.2	1586.6	1579.7	1579.7	1572.9
32.5°	1527.0	1520.3	1508.6	1501.6	1492.8
35°	1447.9	1438.3	1421.7	1409.0	1389.4
37.5°	1363.1	1351.5	1331.0	1298.6	1272.4
40°	1267.5	1252.7	1235.3	1171.8	1124.1
42.5°	1165.1	1162.0	1131.9	1023.5	957.2
45°	1056.7	1060.6	1016.8	871.3	810.9
47.5°	947.3	961.1	881.2	738.6	707.5
50°	851.9	856.6	750.3	641.1	623.5
52.5°	753.4	745.4	640.1	563.9	551.2
55°	663.4	632.3	549.4	491.8	490.8
57.5°	584.4	526.8	469.3	426.5	431.4
60°	501.4	437.1	394.1	370.7	377.7
62.5°	428.3	366.9	328.8	322.0	333.7
65°	371.8	308.3	267.3	284.9	294.8
67.5°	318.1	264.4	217.5	259.5	263.4
70°	268.3	229.2	183.5	239.0	240.1
72.5°	227.4	203.0	158.9	216.7	219.6
75°	198.1	176.6	146.5	193.2	203.0
77.5°	173.7	151.2	135.6	166.9	183.5
80°	147.3	121.9	123.9	139.5	156.1
82.5°	113.3	94.6	98.5	115.1	126.8
85°	77.0	73.1	66.4	85.8	91.8
87.5°	41.0	39.1	34.2	48.7	45.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)