

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: P291230

Luminaire Tested: **14GR-LD5-40-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A125-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4261.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

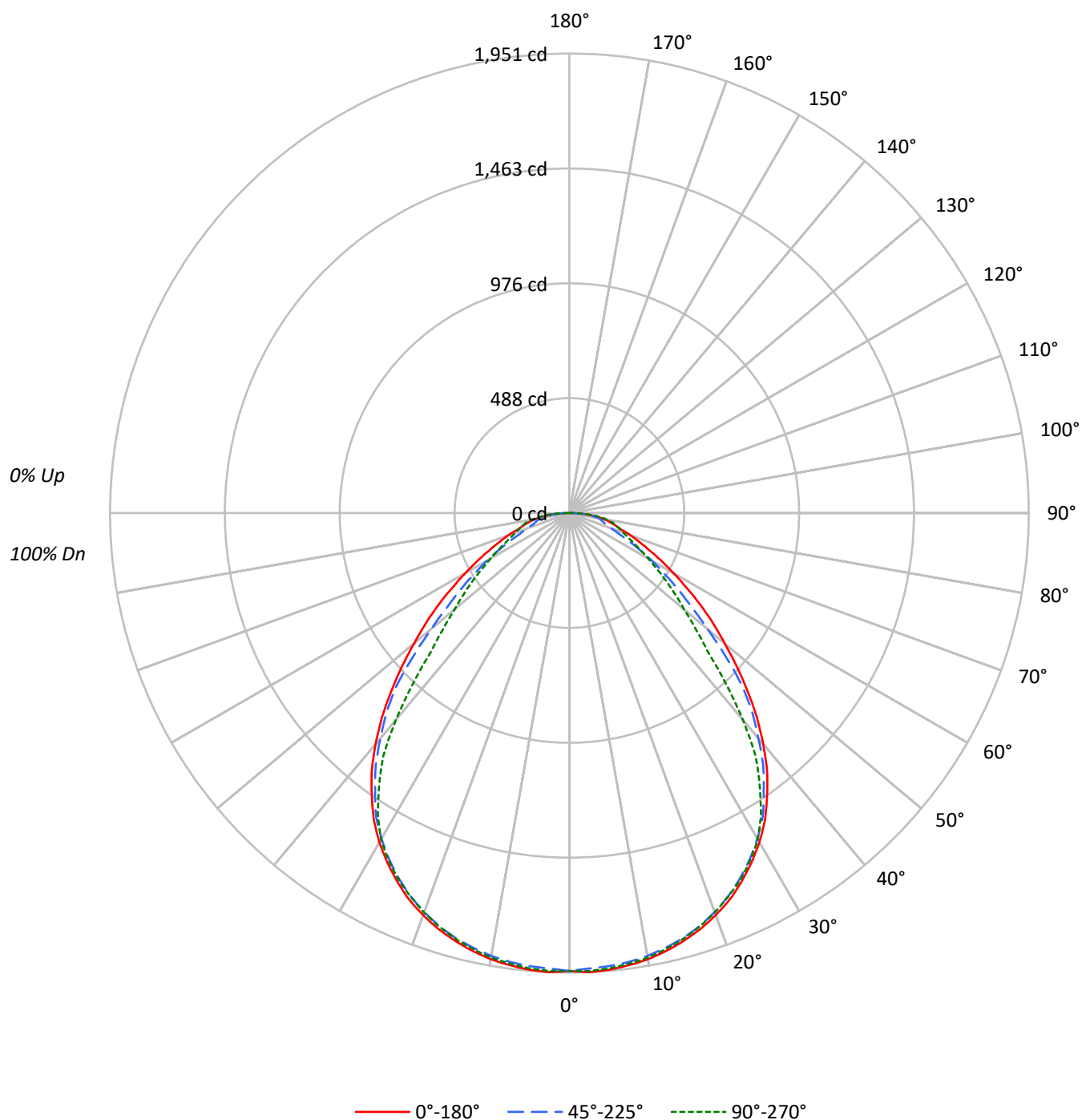
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5232	5232	5232
5°	5258	5218	5242
10°	5256	5216	5237
15°	5238	5205	5213
20°	5203	5164	5169
25°	5133	5086	5101
30°	5016	4961	4973
35°	4809	4728	4627
40°	4497	4386	4025
45°	4070	3954	3156
50°	3600	3199	2661
55°	3186	2630	2347
60°	2751	2176	2080
65°	2392	1731	1913
70°	2162	1485	1913
75°	2076	1552	2138
80°	2314	1976	2497
85°	2442	2106	2992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	4.3
10°-20°	528.6	12.4
20°-30°	791.0	18.6
30°-40°	895.4	21.0
40°-50°	762.7	17.9
50°-60°	516.4	12.1
60°-70°	308.3	7.2
70°-80°	192.6	4.5
80°-90°	81.4	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°	1504.0	35.3
0°-40°	2399.5	56.3
0°-60°	3678.6	86.3
0°-90°	4261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1946	1942	1932	1943	1940	185
15°	1880	1873	1868	1880	1871	530
25°	1729	1724	1713	1721	1718	795
35°	1464	1455	1439	1424	1409	913
45°	1070	1072	1039	886	829	825
55°	679	642	560	500	500	607
65°	376	313	272	291	300	379
75°	200	179	149	196	206	216
85°	79	73	68	86	97	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1944.4	1944.4	1944.4	1944.4	1944.4
2.5°	1951.3	1946.4	1935.5	1948.4	1946.4
5°	1946.4	1941.5	1931.6	1943.4	1940.5
7.5°	1936.5	1931.6	1922.7	1934.5	1929.6
10°	1923.7	1917.7	1908.8	1921.7	1916.7
12.5°	1903.9	1898.0	1890.1	1902.9	1896.0
15°	1880.2	1873.3	1868.3	1880.2	1871.3
17.5°	1851.5	1845.6	1838.7	1850.5	1840.6
20°	1816.9	1812.0	1803.1	1810.0	1805.0
22.5°	1777.4	1770.4	1761.6	1769.5	1762.5
25°	1728.9	1724.0	1713.1	1721.0	1718.1
27.5°	1673.6	1670.6	1657.8	1667.6	1662.7
30°	1614.3	1606.4	1596.5	1599.4	1600.4
32.5°	1546.1	1536.2	1528.3	1521.3	1514.4
35°	1464.0	1455.1	1439.3	1424.5	1408.6
37.5°	1379.0	1367.1	1351.3	1318.7	1298.9
40°	1280.1	1274.2	1248.5	1203.0	1145.7
42.5°	1179.3	1173.4	1150.6	1048.8	986.5
45°	1069.6	1072.5	1038.9	885.7	829.4
47.5°	964.8	972.7	899.6	756.2	726.6
50°	860.0	868.9	764.1	653.4	635.6
52.5°	768.1	761.2	651.4	573.3	565.4
55°	679.1	641.6	560.5	500.2	500.2
57.5°	588.2	534.8	476.5	437.9	437.9
60°	511.1	444.8	404.3	378.6	386.5
62.5°	439.9	369.7	335.1	330.2	340.1
65°	375.6	313.4	271.8	290.6	300.5
67.5°	323.2	267.9	223.4	262.9	268.9
70°	274.8	233.3	188.8	242.2	243.2
72.5°	230.3	205.6	162.1	219.5	223.4
75°	199.7	178.9	149.3	195.7	205.6
77.5°	175.0	153.2	137.4	169.0	187.8
80°	149.3	125.5	127.5	142.3	161.1
82.5°	114.7	96.9	100.8	116.6	131.5
85°	79.1	73.2	68.2	86.0	96.9
87.5°	42.5	39.5	34.6	48.4	49.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)