

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: P290847

Luminaire Tested: **14GR-LD5-43-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4492.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

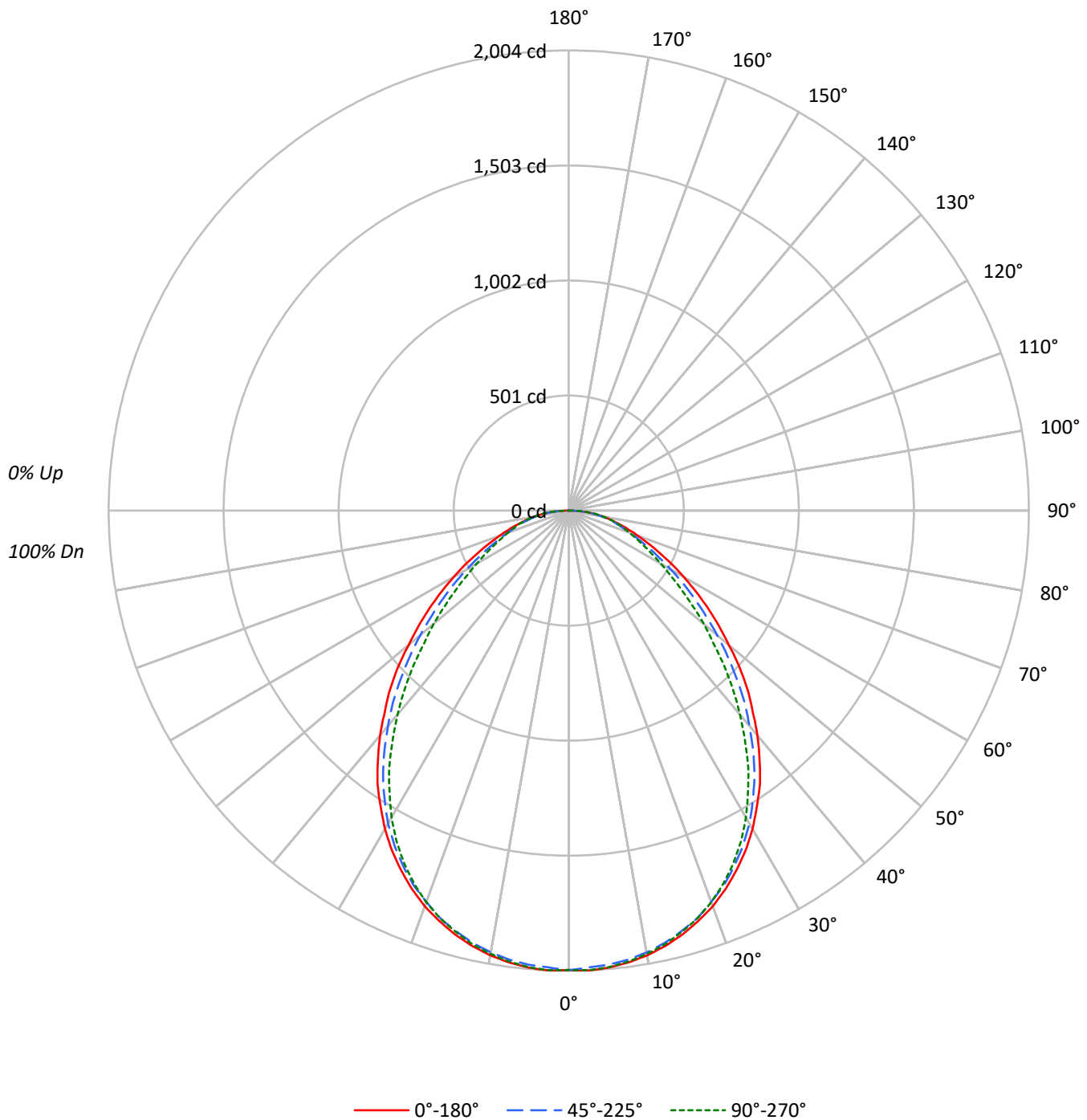
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	88
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		51	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5385	5385	5385
5°	5397	5363	5391
10°	5373	5338	5356
15°	5325	5284	5293
20°	5251	5193	5196
25°	5131	5068	5034
30°	4973	4888	4796
35°	4769	4631	4479
40°	4493	4300	4074
45°	4189	3936	3643
50°	3809	3531	3218
55°	3468	3131	2805
60°	3110	2758	2491
65°	2772	2457	2289
70°	2522	2240	2215
75°	2357	2181	2292
80°	2369	2255	2385
85°	2473	2313	2637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	4.2
10°-20°	536.4	11.9
20°-30°	786.5	17.5
30°-40°	877.9	19.5
40°-50°	794.8	17.7
50°-60°	600.1	13.4
60°-70°	392.3	8.7
70°-80°	230.4	5.1
80°-90°	84.3	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°	1512.2	33.7
0°-40°	2390.1	53.2
0°-60°	3784.9	84.3
0°-90°	4492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2001	2001	2001	2001	2001	
5°	1998	1994	1985	1997	1996	190
15°	1912	1908	1897	1907	1900	539
25°	1728	1722	1707	1704	1695	795
35°	1452	1439	1410	1378	1363	904
45°	1101	1084	1034	978	957	846
55°	739	722	667	615	598	661
65°	435	422	386	364	360	437
75°	227	220	210	214	220	243
85°	80	77	75	84	85	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2004.3	2001.2	1991.7	2004.3	2003.3
5°	1998.0	1993.8	1985.3	1996.9	1995.9
7.5°	1985.3	1981.1	1972.7	1983.2	1981.1
10°	1966.4	1962.1	1953.7	1965.3	1960.0
12.5°	1942.1	1937.9	1928.4	1939.0	1934.7
15°	1911.5	1908.4	1896.8	1907.3	1899.9
17.5°	1874.6	1869.4	1860.9	1867.3	1862.0
20°	1833.5	1827.2	1813.5	1819.8	1814.5
22.5°	1784.0	1775.5	1766.0	1766.0	1758.7
25°	1728.1	1721.8	1707.0	1703.8	1695.4
27.5°	1668.0	1662.7	1643.7	1638.5	1623.7
30°	1600.5	1593.1	1573.1	1556.2	1543.6
32.5°	1525.6	1520.4	1493.0	1470.8	1452.9
35°	1451.8	1439.2	1409.7	1378.0	1363.3
37.5°	1365.4	1355.9	1319.0	1280.0	1259.9
40°	1278.9	1267.3	1224.1	1180.9	1159.8
42.5°	1185.1	1174.5	1133.4	1081.8	1059.6
45°	1100.7	1083.9	1034.3	978.4	957.4
47.5°	1008.0	990.0	937.3	878.3	854.0
50°	909.9	898.3	843.5	786.5	768.6
52.5°	822.4	804.5	752.8	696.9	677.9
55°	739.1	722.2	667.4	614.7	597.8
57.5°	655.8	636.8	589.4	541.9	525.1
60°	577.8	558.8	512.4	473.4	462.9
62.5°	507.1	486.1	444.9	414.4	407.0
65°	435.4	421.7	385.9	363.8	359.5
67.5°	375.3	358.5	330.0	319.5	317.4
70°	320.5	308.9	284.7	281.5	281.5
72.5°	271.0	261.5	243.6	245.7	248.8
75°	226.7	220.4	209.8	214.0	220.4
77.5°	188.7	182.4	176.1	182.4	186.6
80°	152.9	146.6	145.5	150.8	153.9
82.5°	114.9	109.7	110.7	119.1	122.3
85°	80.1	77.0	74.9	84.3	85.4
87.5°	41.1	39.0	38.0	45.3	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)