

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: P290838

Luminaire Tested: **14GR-LD5-40-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290838
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-LD5-40-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: 4211.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

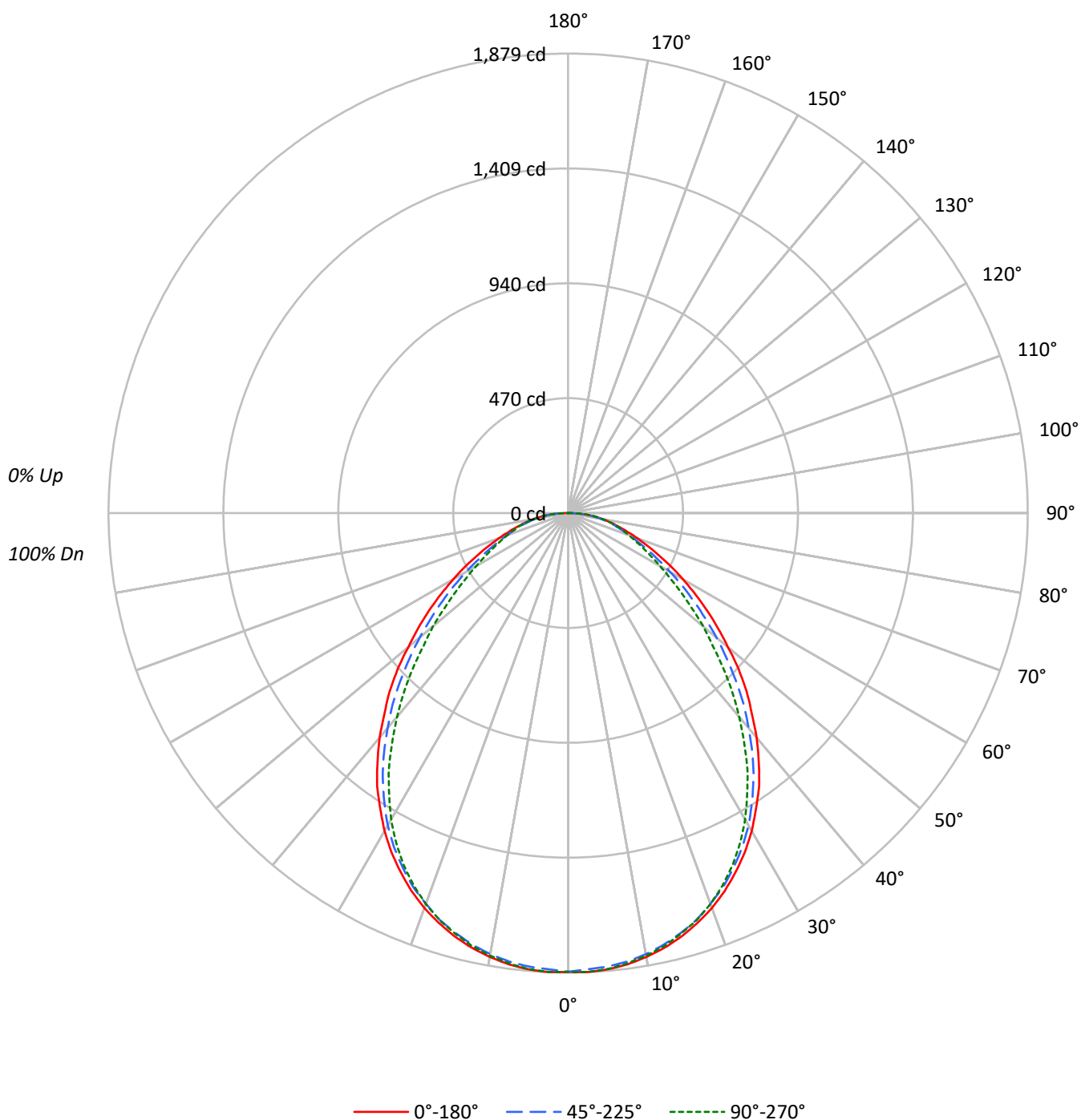
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	5048	5048	5048
5°	5059	5027	5054
10°	5037	5005	5021
15°	4992	4954	4962
20°	4922	4868	4871
25°	4810	4751	4719
30°	4662	4582	4496
35°	4471	4341	4198
40°	4212	4031	3819
45°	3927	3690	3416
50°	3571	3310	3016
55°	3251	2936	2629
60°	2915	2585	2335
65°	2599	2304	2146
70°	2364	2100	2076
75°	2209	2045	2148
80°	2221	2114	2236
85°	2319	2167	2473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	4.2
10°-20°	502.9	11.9
20°-30°	737.3	17.5
30°-40°	823.0	19.5
40°-50°	745.1	17.7
50°-60°	562.6	13.4
60°-70°	367.8	8.7
70°-80°	216.0	5.1
80°-90°	79.1	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°	1417.6	33.7
0°-40°	2240.6	53.2
0°-60°	3548.2	84.3
0°-90°	4211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1873	1869	1861	1872	1871	178
15°	1792	1789	1778	1788	1781	505
25°	1620	1614	1600	1597	1589	745
35°	1361	1349	1322	1292	1278	848
45°	1032	1016	970	917	898	793
55°	693	677	626	576	560	620
65°	408	395	362	341	337	410
75°	212	207	197	201	207	228
85°	75	72	70	79	80	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1876.0	1876.0	1876.0	1876.0	1876.0
2.5°	1878.9	1876.0	1867.1	1878.9	1878.0
5°	1873.0	1869.1	1861.1	1872.0	1871.0
7.5°	1861.1	1857.2	1849.3	1859.2	1857.2
10°	1843.4	1839.4	1831.5	1842.4	1837.4
12.5°	1820.6	1816.7	1807.8	1817.7	1813.7
15°	1792.0	1789.0	1778.1	1788.0	1781.1
17.5°	1757.4	1752.4	1744.5	1750.4	1745.5
20°	1718.8	1712.9	1700.0	1706.0	1701.0
22.5°	1672.4	1664.5	1655.6	1655.6	1648.6
25°	1620.0	1614.0	1600.2	1597.2	1589.3
27.5°	1563.6	1558.7	1540.9	1536.0	1522.1
30°	1500.4	1493.5	1474.7	1458.9	1447.0
32.5°	1430.2	1425.3	1399.6	1378.8	1362.0
35°	1361.0	1349.2	1321.5	1291.8	1278.0
37.5°	1280.0	1271.1	1236.5	1199.9	1181.1
40°	1198.9	1188.1	1147.5	1107.0	1087.2
42.5°	1111.0	1101.1	1062.5	1014.1	993.3
45°	1031.9	1016.1	969.6	917.2	897.5
47.5°	944.9	928.1	878.7	823.3	800.6
50°	853.0	842.1	790.7	737.3	720.5
52.5°	770.9	754.1	705.7	653.3	635.5
55°	692.9	677.1	625.7	576.2	560.4
57.5°	614.8	597.0	552.5	508.0	492.2
60°	541.6	523.8	480.4	443.8	433.9
62.5°	475.4	455.7	417.1	388.4	381.5
65°	408.2	395.4	361.8	341.0	337.0
67.5°	351.9	336.1	309.4	299.5	297.5
70°	300.5	289.6	266.9	263.9	263.9
72.5°	254.0	245.1	228.3	230.3	233.3
75°	212.5	206.6	196.7	200.6	206.6
77.5°	176.9	171.0	165.1	171.0	174.9
80°	143.3	137.4	136.4	141.3	144.3
82.5°	107.7	102.8	103.8	111.7	114.7
85°	75.1	72.2	70.2	79.1	80.1
87.5°	38.5	36.6	35.6	42.5	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)