

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: P290878

Luminaire Tested: **14GR-LD5-40-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290878
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3755.0 lumens
Efficiency: N/A
Efficacy: 108.8 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

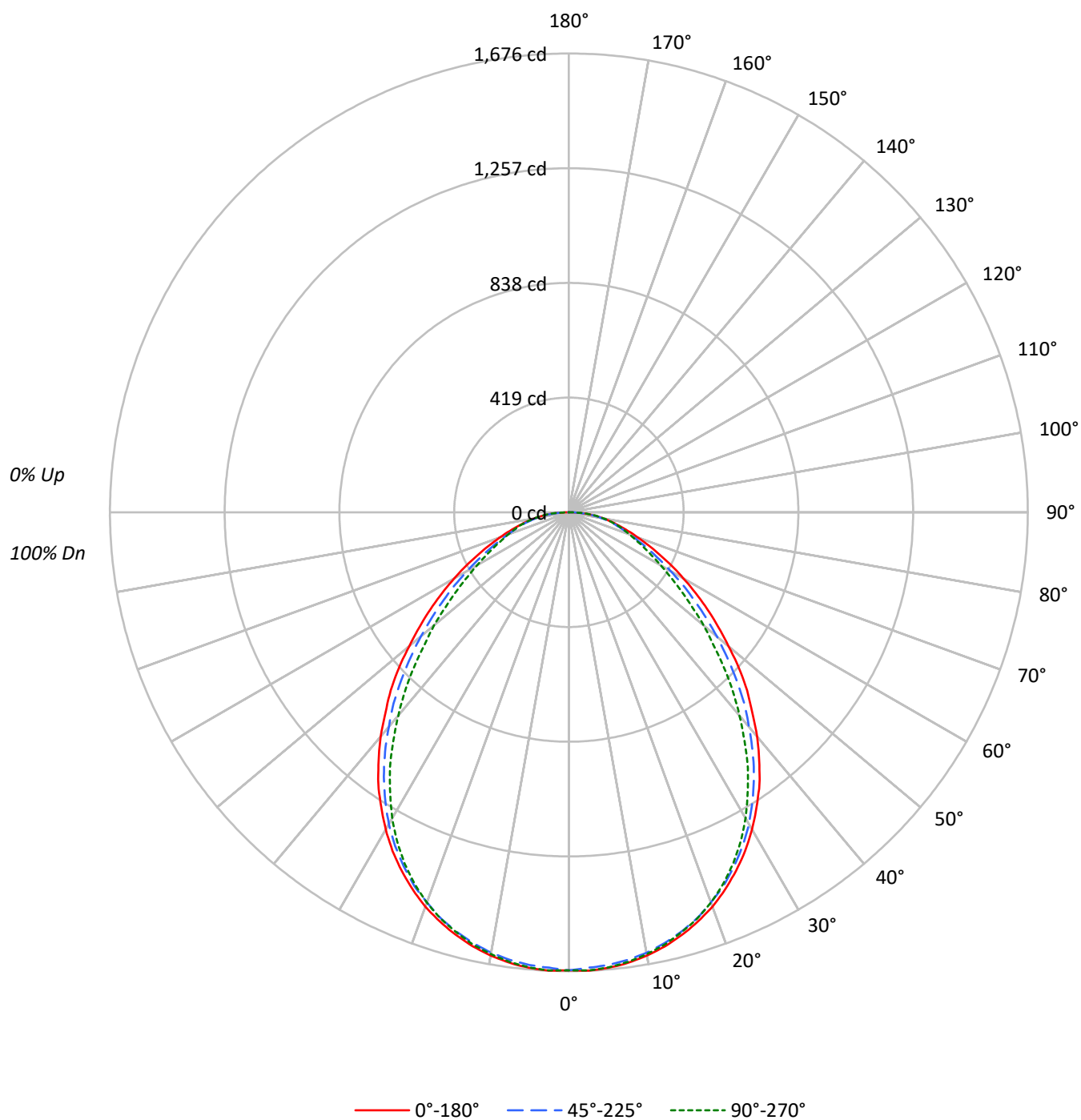
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4501	4501	4501
5°	4512	4483	4507
10°	4491	4463	4477
15°	4452	4417	4425
20°	4389	4341	4344
25°	4289	4237	4208
30°	4157	4086	4009
35°	3987	3871	3744
40°	3756	3595	3406
45°	3502	3290	3046
50°	3184	2952	2690
55°	2898	2617	2344
60°	2599	2305	2082
65°	2318	2054	1913
70°	2108	1873	1851
75°	1970	1824	1915
80°	1980	1884	1994
85°	2069	1933	2205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	4.2
10°-20°	448.4	11.9
20°-30°	657.5	17.5
30°-40°	733.8	19.5
40°-50°	664.4	17.7
50°-60°	501.6	13.4
60°-70°	327.9	8.7
70°-80°	192.6	5.1
80°-90°	70.5	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°	1264.1	33.7
0°-40°	1997.9	53.2
0°-60°	3163.9	84.3
0°-90°	3755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1673	1673	1673	1673	1673	
5°	1670	1667	1660	1669	1668	159
15°	1598	1595	1586	1594	1588	450
25°	1445	1439	1427	1424	1417	665
35°	1214	1203	1178	1152	1140	756
45°	920	906	865	818	800	707
55°	618	604	558	514	500	553
65°	364	352	323	304	300	365
75°	190	184	175	179	184	204
85°	67	64	63	70	71	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1672.8	1672.8	1672.8	1672.8	1672.8
2.5°	1675.5	1672.8	1664.9	1675.5	1674.6
5°	1670.2	1666.7	1659.6	1669.3	1668.4
7.5°	1659.6	1656.1	1649.0	1657.8	1656.1
10°	1643.7	1640.2	1633.2	1642.9	1638.5
12.5°	1623.5	1619.9	1612.0	1620.8	1617.3
15°	1597.9	1595.3	1585.6	1594.4	1588.2
17.5°	1567.1	1562.7	1555.6	1560.9	1556.5
20°	1532.7	1527.4	1515.9	1521.2	1516.8
22.5°	1491.3	1484.2	1476.3	1476.3	1470.1
25°	1444.6	1439.3	1426.9	1424.3	1417.2
27.5°	1394.3	1389.9	1374.0	1369.6	1357.3
30°	1337.9	1331.7	1315.0	1300.9	1290.3
32.5°	1275.3	1270.9	1248.0	1229.5	1214.5
35°	1213.6	1203.1	1178.4	1151.9	1139.6
37.5°	1141.4	1133.4	1102.6	1070.0	1053.2
40°	1069.1	1059.4	1023.3	987.1	969.5
42.5°	990.7	981.8	947.5	904.3	885.8
45°	920.1	906.0	864.6	817.9	800.3
47.5°	842.6	827.6	783.5	734.2	713.9
50°	760.6	750.9	705.1	657.5	642.5
52.5°	687.5	672.5	629.3	582.6	566.7
55°	617.8	603.7	557.9	513.8	499.7
57.5°	548.2	532.3	492.7	453.0	438.9
60°	483.0	467.1	428.3	395.7	386.9
62.5°	423.9	406.3	371.9	346.4	340.2
65°	364.0	352.5	322.6	304.1	300.5
67.5°	313.8	299.7	275.9	267.1	265.3
70°	267.9	258.2	238.0	235.3	235.3
72.5°	226.5	218.6	203.6	205.4	208.0
75°	189.5	184.2	175.4	178.9	184.2
77.5°	157.8	152.5	147.2	152.5	156.0
80°	127.8	122.5	121.6	126.0	128.7
82.5°	96.1	91.7	92.5	99.6	102.2
85°	67.0	64.3	62.6	70.5	71.4
87.5°	34.4	32.6	31.7	37.9	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)