

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: P290936

Luminaire Tested: **14GR-LD5-40-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290936
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-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3781.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

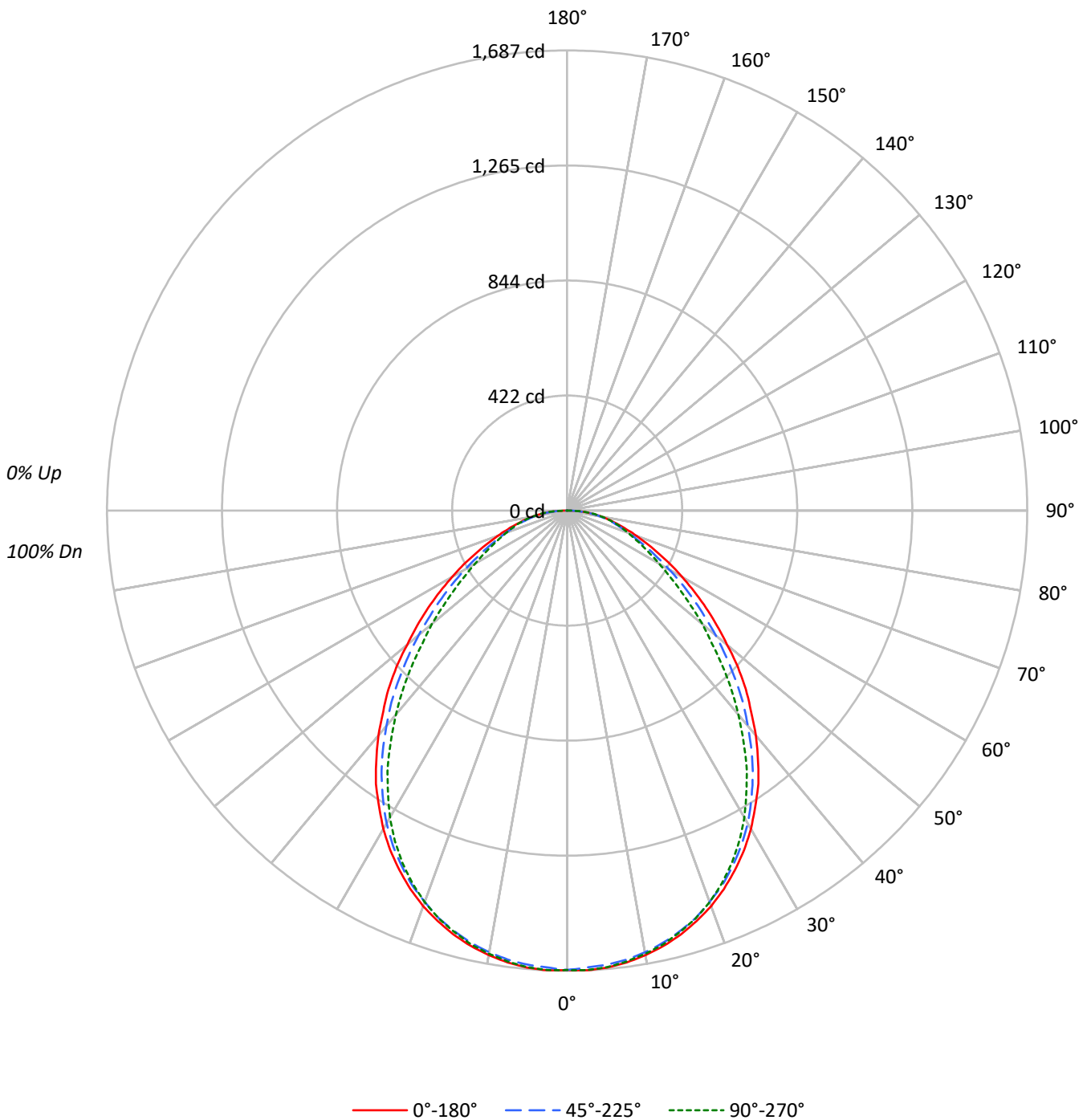
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4533	4533	4533
5°	4543	4514	4538
10°	4523	4494	4508
15°	4483	4448	4455
20°	4420	4371	4374
25°	4319	4266	4237
30°	4186	4114	4037
35°	4014	3898	3770
40°	3782	3619	3429
45°	3526	3313	3067
50°	3206	2972	2709
55°	2919	2636	2361
60°	2617	2321	2097
65°	2334	2068	1927
70°	2123	1885	1865
75°	1984	1836	1929
80°	1994	1898	2008
85°	2081	1945	2220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	4.2
10°-20°	451.5	11.9
20°-30°	662.0	17.5
30°-40°	738.9	19.5
40°-50°	669.0	17.7
50°-60°	505.1	13.4
60°-70°	330.2	8.7
70°-80°	193.9	5.1
80°-90°	71.0	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°	1272.8	33.7
0°-40°	2011.8	53.2
0°-60°	3185.9	84.3
0°-90°	3781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1682	1678	1671	1681	1680	160
15°	1609	1606	1597	1605	1599	453
25°	1455	1449	1437	1434	1427	669
35°	1222	1211	1186	1160	1148	761
45°	926	912	871	824	806	712
55°	622	608	562	517	503	557
65°	366	355	325	306	303	368
75°	191	186	177	180	186	205
85°	67	65	63	71	72	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1684.4	1684.4	1684.4	1684.4	1684.4
2.5°	1687.1	1684.4	1676.4	1687.1	1686.2
5°	1681.7	1678.2	1671.1	1680.9	1680.0
7.5°	1671.1	1667.5	1660.4	1669.3	1667.5
10°	1655.1	1651.6	1644.5	1654.2	1649.8
12.5°	1634.7	1631.2	1623.2	1632.1	1628.5
15°	1609.0	1606.3	1596.6	1605.4	1599.2
17.5°	1577.9	1573.5	1566.4	1571.7	1567.3
20°	1543.3	1538.0	1526.4	1531.8	1527.3
22.5°	1501.6	1494.5	1486.5	1486.5	1480.3
25°	1454.6	1449.2	1436.8	1434.1	1427.0
27.5°	1404.0	1399.5	1383.6	1379.1	1366.7
30°	1347.2	1341.0	1324.1	1309.9	1299.3
32.5°	1284.2	1279.7	1256.7	1238.0	1222.9
35°	1222.0	1211.4	1186.5	1159.9	1147.5
37.5°	1149.3	1141.3	1110.2	1077.4	1060.5
40°	1076.5	1066.7	1030.3	994.0	976.2
42.5°	997.5	988.6	954.0	910.5	891.9
45°	926.5	912.3	870.6	823.6	805.8
47.5°	848.4	833.3	789.0	739.3	718.8
50°	765.9	756.1	710.0	662.1	647.0
52.5°	692.2	677.1	633.7	586.6	570.6
55°	622.1	607.9	561.8	517.4	503.2
57.5°	552.0	536.0	496.1	456.2	442.0
60°	486.3	470.4	431.3	398.5	389.6
62.5°	426.9	409.1	374.5	348.8	342.6
65°	366.5	355.0	324.8	306.2	302.6
67.5°	315.9	301.7	277.8	268.9	267.1
70°	269.8	260.0	239.6	237.0	237.0
72.5°	228.1	220.1	205.0	206.8	209.4
75°	190.8	185.5	176.6	180.2	185.5
77.5°	158.9	153.5	148.2	153.5	157.1
80°	128.7	123.4	122.5	126.9	129.6
82.5°	96.7	92.3	93.2	100.3	102.9
85°	67.4	64.8	63.0	71.0	71.9
87.5°	34.6	32.8	31.9	38.2	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)