

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: P290741

Luminaire Tested: **14GR-LD5-40-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3839.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

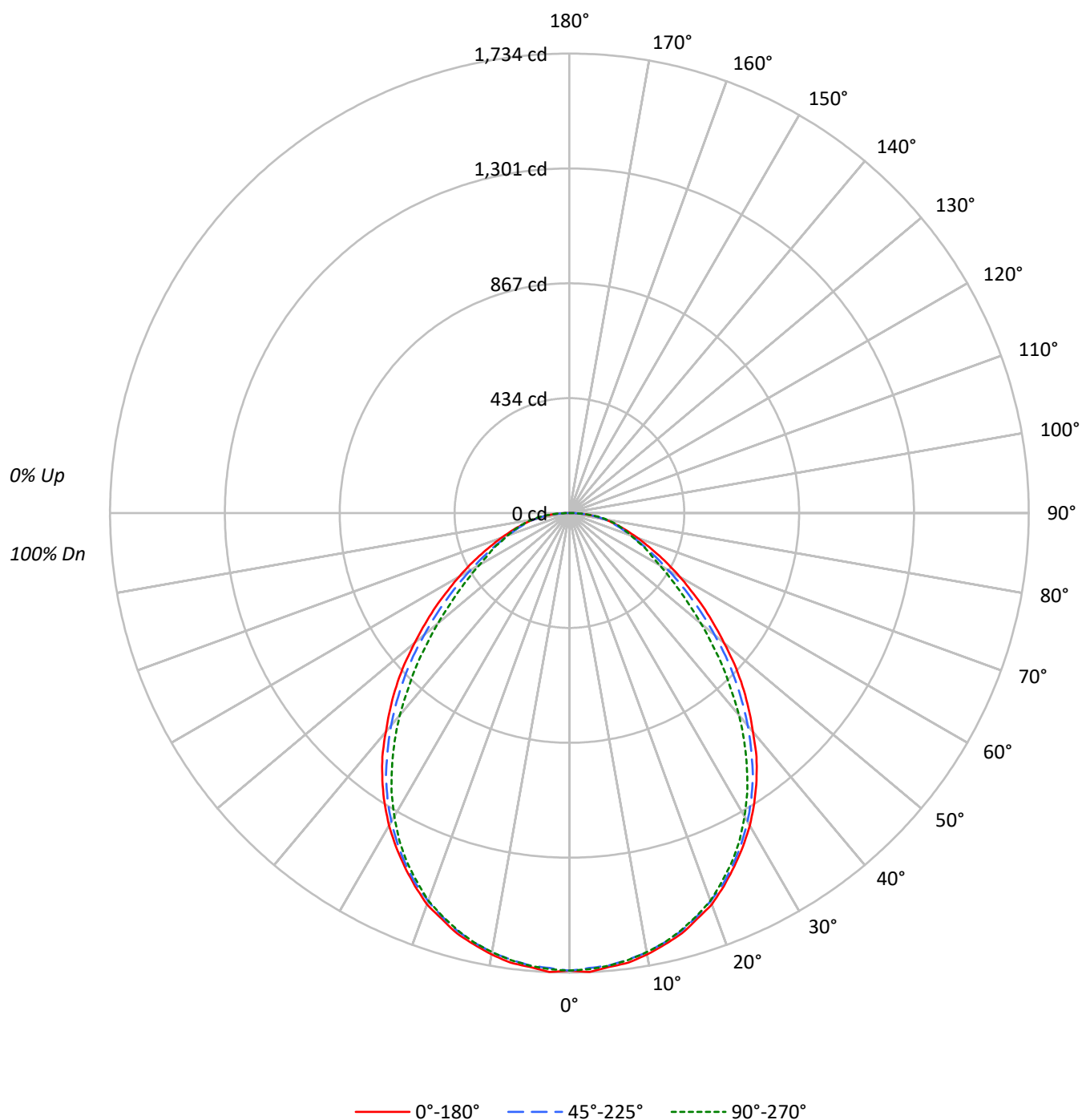
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87
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	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	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		52	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°	4646	4646	4646
5°	4645	4628	4630
10°	4621	4600	4597
15°	4574	4547	4540
20°	4501	4463	4458
25°	4371	4342	4311
30°	4230	4178	4107
35°	4044	3966	3836
40°	3787	3681	3499
45°	3516	3359	3115
50°	3190	2991	2712
55°	2886	2642	2370
60°	2590	2316	2112
65°	2325	2067	2023
70°	2146	1924	1946
75°	2049	1931	2040
80°	2073	2060	2222
85°	2146	2118	2365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	4.2
10°-20°	460.8	12.0
20°-30°	672.9	17.5
30°-40°	749.8	19.5
40°-50°	675.6	17.6
50°-60°	505.0	13.2
60°-70°	333.1	8.7
70°-80°	203.4	5.3
80°-90°	75.5	2.0
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°	1296.7	33.8
0°-40°	2046.5	53.3
0°-60°	3227.1	84.1
0°-90°	3839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1720	1718	1713	1722	1714	163
15°	1642	1636	1632	1642	1630	462
25°	1472	1467	1462	1465	1452	678
35°	1231	1220	1207	1186	1168	768
45°	924	914	883	842	818	711
55°	615	605	563	516	505	551
65°	365	354	325	312	318	366
75°	197	194	186	192	196	211
85°	70	67	69	76	77	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.5	1726.5	1726.5	1726.5	1726.5
2.5°	1733.5	1725.6	1718.6	1729.1	1723.0
5°	1719.5	1717.7	1713.3	1722.1	1714.2
7.5°	1710.7	1704.5	1699.2	1709.8	1701.0
10°	1691.3	1687.8	1683.4	1692.2	1682.5
12.5°	1667.5	1664.0	1659.6	1670.2	1659.6
15°	1642.0	1635.9	1632.3	1642.0	1629.7
17.5°	1605.1	1602.4	1597.1	1606.8	1594.5
20°	1571.6	1561.9	1558.4	1565.5	1556.7
22.5°	1523.2	1516.2	1515.3	1519.7	1504.7
25°	1472.2	1466.9	1462.5	1465.1	1451.9
27.5°	1418.5	1411.5	1406.2	1405.3	1391.2
30°	1361.3	1352.5	1344.6	1337.5	1321.7
32.5°	1298.8	1288.3	1277.7	1266.3	1249.6
35°	1231.1	1220.5	1207.3	1186.2	1167.7
37.5°	1159.8	1147.5	1126.4	1101.7	1083.2
40°	1078.0	1071.8	1048.0	1016.4	996.1
42.5°	1001.4	994.4	964.4	929.2	902.0
45°	924.0	914.3	882.6	842.1	818.4
47.5°	844.8	835.1	799.9	749.7	728.6
50°	762.1	756.8	714.5	668.8	647.7
52.5°	686.4	680.2	637.1	591.3	572.0
55°	615.1	605.4	563.2	516.5	505.1
57.5°	543.8	533.3	493.7	454.1	446.1
60°	481.3	468.1	430.3	399.5	392.5
62.5°	422.4	407.4	375.7	352.0	348.5
65°	365.2	353.7	324.7	311.5	317.7
67.5°	315.9	304.5	283.3	278.1	276.3
70°	272.8	262.2	244.6	246.4	247.3
72.5°	233.2	227.0	213.8	218.2	221.8
75°	197.1	193.6	185.7	191.8	196.2
77.5°	164.6	161.9	158.4	163.7	170.7
80°	133.8	132.0	132.9	136.4	143.4
82.5°	103.0	99.4	102.1	109.1	113.5
85°	69.5	66.9	68.6	75.7	76.6
87.5°	32.6	32.6	31.7	37.0	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)