

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: P290823

Luminaire Tested: **14GR-LD5-32-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290823
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-LD5-32-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3418.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

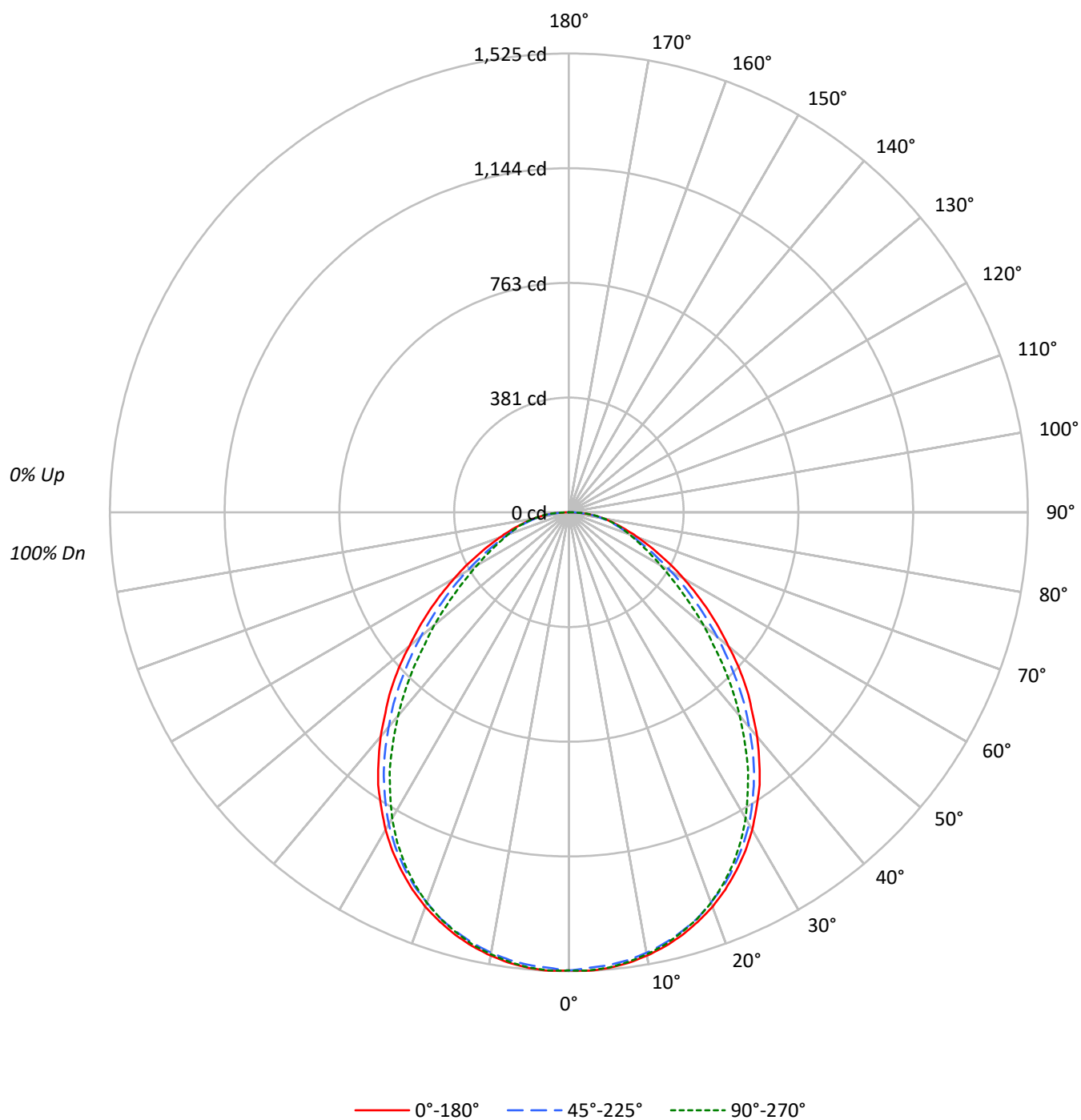
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4098	4098	4098
5°	4107	4081	4102
10°	4088	4062	4075
15°	4052	4021	4028
20°	3995	3952	3954
25°	3904	3857	3830
30°	3784	3719	3649
35°	3629	3524	3408
40°	3418	3272	3100
45°	3188	2995	2772
50°	2899	2687	2449
55°	2639	2382	2134
60°	2366	2098	1896
65°	2110	1869	1742
70°	1919	1704	1685
75°	1794	1660	1744
80°	1802	1715	1815
85°	1883	1760	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	4.2
10°-20°	408.2	11.9
20°-30°	598.5	17.5
30°-40°	668.0	19.5
40°-50°	604.8	17.7
50°-60°	456.6	13.4
60°-70°	298.5	8.7
70°-80°	175.3	5.1
80°-90°	64.2	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°	1150.6	33.7
0°-40°	1818.6	53.2
0°-60°	2880.0	84.3
0°-90°	3418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1520	1517	1511	1520	1519	144
15°	1454	1452	1443	1451	1446	410
25°	1315	1310	1299	1296	1290	605
35°	1105	1095	1073	1049	1037	688
45°	838	825	787	744	728	644
55°	562	550	508	468	455	503
65°	331	321	294	277	274	332
75°	172	168	160	163	168	185
85°	61	59	57	64	65	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1522.7	1522.7	1522.7	1522.7	1522.7
2.5°	1525.1	1522.7	1515.5	1525.1	1524.3
5°	1520.3	1517.1	1510.7	1519.5	1518.7
7.5°	1510.7	1507.5	1501.0	1509.1	1507.5
10°	1496.2	1493.0	1486.6	1495.4	1491.4
12.5°	1477.8	1474.6	1467.3	1475.4	1472.2
15°	1454.5	1452.1	1443.3	1451.3	1445.7
17.5°	1426.4	1422.4	1416.0	1420.8	1416.8
20°	1395.1	1390.3	1379.9	1384.7	1380.7
22.5°	1357.4	1351.0	1343.8	1343.8	1338.2
25°	1314.9	1310.1	1298.9	1296.5	1290.0
27.5°	1269.2	1265.2	1250.7	1246.7	1235.5
30°	1217.8	1212.2	1197.0	1184.1	1174.5
32.5°	1160.9	1156.9	1136.0	1119.2	1105.5
35°	1104.7	1095.1	1072.6	1048.6	1037.3
37.5°	1038.9	1031.7	1003.6	973.9	958.7
40°	973.1	964.3	931.4	898.5	882.5
42.5°	901.7	893.7	862.4	823.1	806.3
45°	837.6	824.7	787.0	744.5	728.5
47.5°	767.0	753.3	713.2	668.3	649.8
50°	692.4	683.5	641.8	598.5	584.9
52.5°	625.8	612.1	572.8	530.3	515.9
55°	562.4	549.6	507.8	467.7	454.9
57.5°	499.0	484.6	448.5	412.4	399.5
60°	439.6	425.2	389.9	360.2	352.2
62.5°	385.9	369.8	338.6	315.3	309.7
65°	331.3	320.9	293.6	276.8	273.6
67.5°	285.6	272.8	251.1	243.1	241.5
70°	243.9	235.1	216.6	214.2	214.2
72.5°	206.2	199.0	185.3	186.9	189.3
75°	172.5	167.7	159.7	162.9	167.7
77.5°	143.6	138.8	134.0	138.8	142.0
80°	116.3	111.5	110.7	114.7	117.1
82.5°	87.4	83.4	84.2	90.7	93.1
85°	61.0	58.6	57.0	64.2	65.0
87.5°	31.3	29.7	28.9	34.5	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)