

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: P290822

Luminaire Tested: **14GR-LD5-32-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290822
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3409.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

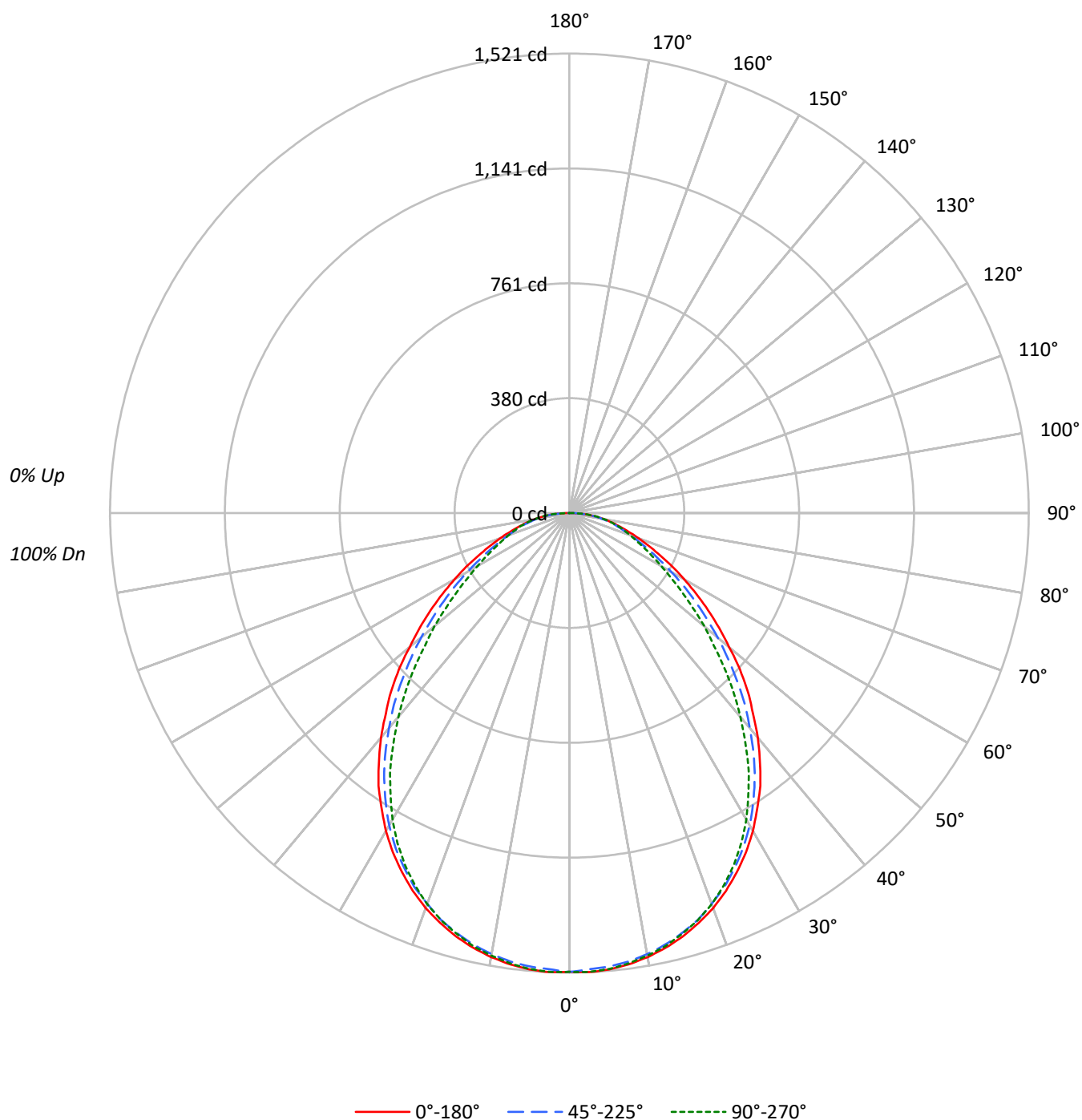
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4087	4087	4087
5°	4096	4070	4092
10°	4078	4051	4065
15°	4042	4010	4017
20°	3985	3941	3944
25°	3894	3846	3820
30°	3774	3709	3640
35°	3619	3514	3399
40°	3410	3263	3092
45°	3179	2987	2765
50°	2891	2680	2442
55°	2632	2376	2129
60°	2360	2093	1891
65°	2104	1865	1738
70°	1913	1699	1681
75°	1788	1655	1738
80°	1798	1711	1810
85°	1877	1754	2001



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	4.2
10°-20°	407.1	11.9
20°-30°	596.9	17.5
30°-40°	666.2	19.5
40°-50°	603.2	17.7
50°-60°	455.4	13.4
60°-70°	297.7	8.7
70°-80°	174.8	5.1
80°-90°	64.0	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°	1147.6	33.7
0°-40°	1813.8	53.2
0°-60°	2872.4	84.3
0°-90°	3409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1516	1513	1507	1516	1515	144
15°	1451	1448	1440	1448	1442	409
25°	1311	1307	1295	1293	1287	603
35°	1102	1092	1070	1046	1035	686
45°	835	823	785	742	726	642
55°	561	548	506	466	454	502
65°	330	320	293	276	273	332
75°	172	167	159	162	167	185
85°	61	58	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°	1518.7	1518.7	1518.7	1518.7	1518.7
2.5°	1521.1	1518.7	1511.5	1521.1	1520.3
5°	1516.3	1513.1	1506.7	1515.5	1514.7
7.5°	1506.7	1503.5	1497.1	1505.1	1503.5
10°	1492.3	1489.1	1482.7	1491.5	1487.5
12.5°	1473.9	1470.7	1463.5	1471.5	1468.3
15°	1450.7	1448.3	1439.5	1447.5	1441.9
17.5°	1422.7	1418.7	1412.3	1417.1	1413.1
20°	1391.5	1386.7	1376.3	1381.1	1377.1
22.5°	1353.9	1347.5	1340.3	1340.3	1334.7
25°	1311.4	1306.6	1295.4	1293.0	1286.6
27.5°	1265.8	1261.8	1247.4	1243.4	1232.2
30°	1214.6	1209.0	1193.8	1181.0	1171.4
32.5°	1157.8	1153.8	1133.0	1116.2	1102.6
35°	1101.8	1092.2	1069.8	1045.8	1034.6
37.5°	1036.2	1029.0	1001.0	971.4	956.2
40°	970.6	961.8	929.0	896.2	880.2
42.5°	899.4	891.4	860.2	821.0	804.2
45°	835.4	822.6	784.9	742.5	726.5
47.5°	764.9	751.3	711.3	666.5	648.1
50°	690.5	681.7	640.1	596.9	583.3
52.5°	624.1	610.5	571.3	528.9	514.5
55°	560.9	548.1	506.5	466.5	453.7
57.5°	497.7	483.3	447.3	411.3	398.5
60°	438.5	424.1	388.9	359.3	351.3
62.5°	384.9	368.9	337.7	314.5	308.9
65°	330.5	320.1	292.9	276.1	272.9
67.5°	284.9	272.1	250.4	242.4	240.8
70°	243.2	234.4	216.0	213.6	213.6
72.5°	205.6	198.4	184.8	186.4	188.8
75°	172.0	167.2	159.2	162.4	167.2
77.5°	143.2	138.4	133.6	138.4	141.6
80°	116.0	111.2	110.4	114.4	116.8
82.5°	87.2	83.2	84.0	90.4	92.8
85°	60.8	58.4	56.8	64.0	64.8
87.5°	31.2	29.6	28.8	34.4	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)