

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: P290867

Luminaire Tested: **14GR-LD5-32-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290867
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-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2780.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

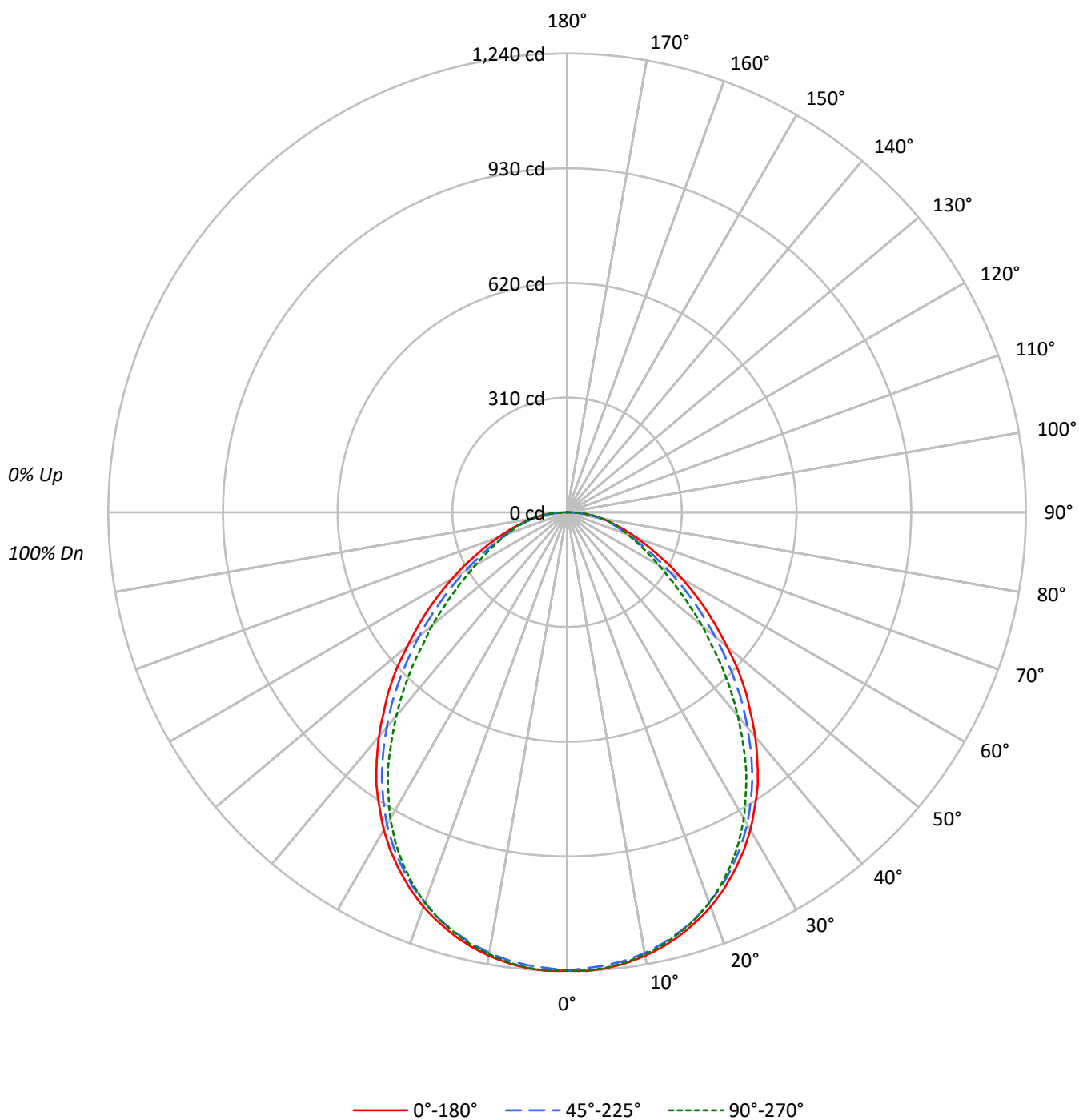
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3333	3333	3333
5°	3340	3319	3337
10°	3325	3304	3315
15°	3296	3270	3276
20°	3249	3214	3216
25°	3176	3137	3115
30°	3078	3025	2968
35°	2952	2866	2772
40°	2780	2661	2522
45°	2592	2436	2255
50°	2357	2185	1991
55°	2146	1938	1736
60°	1925	1707	1542
65°	1716	1521	1417
70°	1561	1386	1371
75°	1459	1351	1418
80°	1466	1395	1477
85°	1531	1430	1633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	4.2
10°-20°	332.0	11.9
20°-30°	486.8	17.5
30°-40°	543.3	19.5
40°-50°	491.9	17.7
50°-60°	371.4	13.4
60°-70°	242.8	8.7
70°-80°	142.6	5.1
80°-90°	52.2	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°	935.9	33.7
0°-40°	1479.2	53.2
0°-60°	2342.4	84.3
0°-90°	2780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1236	1234	1229	1236	1235	117
15°	1183	1181	1174	1180	1176	333
25°	1070	1066	1056	1054	1049	492
35°	898	891	872	853	844	560
45°	681	671	640	606	592	523
55°	457	447	413	380	370	409
65°	270	261	239	225	222	270
75°	140	136	130	132	136	151
85°	50	48	46	52	53	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1238.5	1238.5	1238.5	1238.5	1238.5
2.5°	1240.4	1238.5	1232.6	1240.4	1239.8
5°	1236.5	1233.9	1228.7	1235.9	1235.2
7.5°	1228.7	1226.1	1220.9	1227.4	1226.1
10°	1216.9	1214.3	1209.1	1216.3	1213.0
12.5°	1201.9	1199.3	1193.4	1200.0	1197.4
15°	1183.0	1181.1	1173.9	1180.4	1175.8
17.5°	1160.2	1156.9	1151.7	1155.6	1152.3
20°	1134.7	1130.8	1122.3	1126.2	1123.0
22.5°	1104.1	1098.8	1093.0	1093.0	1088.4
25°	1069.5	1065.6	1056.4	1054.5	1049.2
27.5°	1032.3	1029.0	1017.3	1014.0	1004.9
30°	990.5	985.9	973.6	963.1	955.3
32.5°	944.2	940.9	924.0	910.3	899.2
35°	898.5	890.7	872.4	852.8	843.7
37.5°	845.0	839.1	816.3	792.2	779.8
40°	791.5	784.3	757.6	730.8	717.8
42.5°	733.4	726.9	701.5	669.5	655.8
45°	681.2	670.8	640.1	605.5	592.5
47.5°	623.8	612.7	580.1	543.5	528.5
50°	563.1	555.9	522.0	486.8	475.7
52.5°	509.0	497.9	465.9	431.3	419.6
55°	457.4	447.0	413.0	380.4	370.0
57.5°	405.9	394.1	364.8	335.4	325.0
60°	357.6	345.8	317.1	293.0	286.5
62.5°	313.9	300.8	275.4	256.4	251.9
65°	269.5	261.0	238.8	225.1	222.5
67.5°	232.3	221.9	204.2	197.7	196.4
70°	198.4	191.2	176.2	174.2	174.2
72.5°	167.7	161.8	150.7	152.0	154.0
75°	140.3	136.4	129.9	132.5	136.4
77.5°	116.8	112.9	109.0	112.9	115.5
80°	94.6	90.7	90.0	93.3	95.3
82.5°	71.1	67.9	68.5	73.7	75.7
85°	49.6	47.6	46.3	52.2	52.9
87.5°	25.4	24.1	23.5	28.1	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)