

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: P290898

Luminaire Tested: **14GR-LD5-24-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290898
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-LD5-24-F125-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2131.0 lumens
Efficiency: N/A
Efficacy: 115.7 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

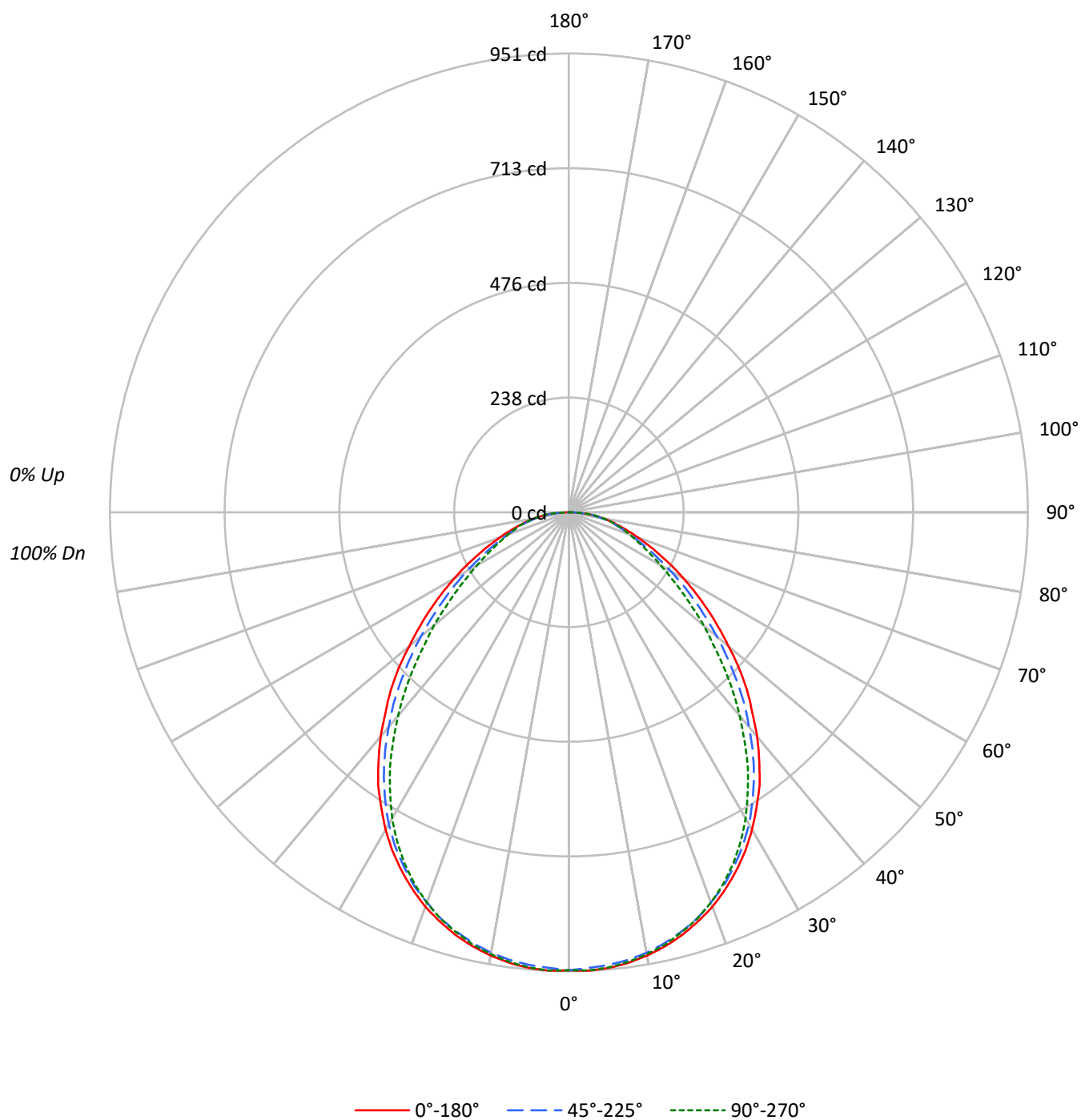
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2555	2555	2555
5°	2560	2544	2558
10°	2549	2532	2541
15°	2526	2507	2511
20°	2491	2464	2465
25°	2434	2404	2388
30°	2359	2319	2275
35°	2263	2197	2124
40°	2131	2040	1933
45°	1987	1867	1729
50°	1807	1675	1526
55°	1645	1485	1331
60°	1475	1308	1182
65°	1316	1166	1086
70°	1197	1062	1050
75°	1118	1035	1087
80°	1124	1069	1131
85°	1173	1096	1250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	4.2
10°-20°	254.5	11.9
20°-30°	373.1	17.5
30°-40°	416.5	19.5
40°-50°	377.1	17.7
50°-60°	284.7	13.4
60°-70°	186.1	8.7
70°-80°	109.3	5.1
80°-90°	40.0	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°	717.4	33.7
0°-40°	1133.8	53.2
0°-60°	1795.6	84.3
0°-90°	2131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	949	949	949	949	949	
5°	948	946	942	947	947	90
15°	907	905	900	905	901	256
25°	820	817	810	808	804	377
35°	689	683	669	654	647	429
45°	522	514	491	464	454	401
55°	351	343	317	292	284	314
65°	207	200	183	173	171	207
75°	108	104	100	102	104	115
85°	38	36	36	40	40	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.3	949.3	949.3	949.3	949.3
2.5°	950.8	949.3	944.8	950.8	950.3
5°	947.8	945.8	941.8	947.3	946.8
7.5°	941.8	939.8	935.8	940.8	939.8
10°	932.8	930.8	926.8	932.3	929.8
12.5°	921.3	919.3	914.8	919.8	917.8
15°	906.8	905.3	899.8	904.8	901.3
17.5°	889.3	886.8	882.8	885.8	883.3
20°	869.8	866.8	860.3	863.3	860.8
22.5°	846.3	842.3	837.8	837.8	834.3
25°	819.8	816.8	809.8	808.3	804.3
27.5°	791.3	788.8	779.8	777.3	770.3
30°	759.3	755.8	746.3	738.3	732.3
32.5°	723.8	721.3	708.3	697.8	689.3
35°	688.8	682.7	668.7	653.7	646.7
37.5°	647.7	643.2	625.7	607.2	597.7
40°	606.7	601.2	580.7	560.2	550.2
42.5°	562.2	557.2	537.7	513.2	502.7
45°	522.2	514.2	490.7	464.2	454.2
47.5°	478.2	469.7	444.7	416.7	405.1
50°	431.7	426.2	400.1	373.1	364.6
52.5°	390.1	381.6	357.1	330.6	321.6
55°	350.6	342.6	316.6	291.6	283.6
57.5°	311.1	302.1	279.6	257.1	249.1
60°	274.1	265.1	243.1	224.6	219.6
62.5°	240.6	230.6	211.1	196.6	193.1
65°	206.6	200.1	183.1	172.6	170.6
67.5°	178.1	170.1	156.6	151.6	150.6
70°	152.1	146.6	135.0	133.5	133.5
72.5°	128.5	124.0	115.5	116.5	118.0
75°	107.5	104.5	99.5	101.5	104.5
77.5°	89.5	86.5	83.5	86.5	88.5
80°	72.5	69.5	69.0	71.5	73.0
82.5°	54.5	52.0	52.5	56.5	58.0
85°	38.0	36.5	35.5	40.0	40.5
87.5°	19.5	18.5	18.0	21.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)