

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: P290800

Luminaire Tested: **14GR-LD5-24-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290800
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-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2409.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

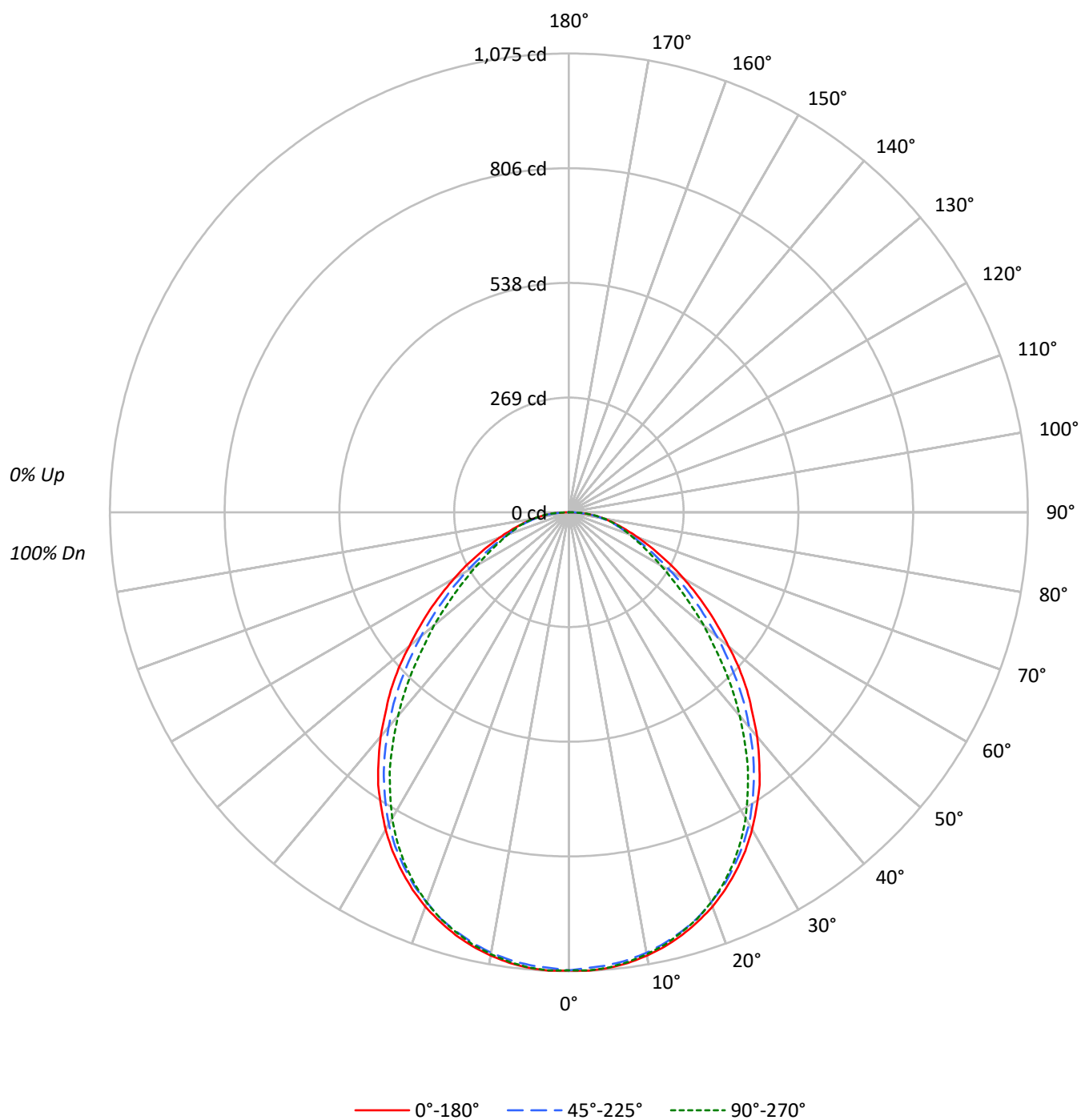
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	2888	2888	2888
5°	2894	2876	2891
10°	2881	2863	2872
15°	2856	2834	2839
20°	2816	2785	2787
25°	2752	2718	2700
30°	2667	2621	2572
35°	2558	2484	2402
40°	2409	2306	2185
45°	2246	2111	1954
50°	2043	1894	1726
55°	1860	1679	1504
60°	1668	1479	1336
65°	1487	1317	1228
70°	1352	1201	1188
75°	1264	1170	1229
80°	1271	1209	1280
85°	1328	1238	1414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	4.2
10°-20°	287.7	11.9
20°-30°	421.8	17.5
30°-40°	470.8	19.5
40°-50°	426.2	17.7
50°-60°	321.8	13.4
60°-70°	210.4	8.7
70°-80°	123.6	5.1
80°-90°	45.2	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°	811.0	33.7
0°-40°	1281.8	53.2
0°-60°	2029.8	84.3
0°-90°	2409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1072	1069	1065	1071	1070	102
15°	1025	1023	1017	1023	1019	289
25°	927	923	915	914	909	426
35°	779	772	756	739	731	485
45°	590	581	555	525	513	454
55°	396	387	358	330	321	355
65°	234	226	207	195	193	234
75°	122	118	112	115	118	131
85°	43	41	40	45	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.2	1073.2	1073.2	1073.2	1073.2
2.5°	1074.9	1073.2	1068.1	1074.9	1074.3
5°	1071.5	1069.2	1064.7	1070.9	1070.4
7.5°	1064.7	1062.5	1057.9	1063.6	1062.5
10°	1054.5	1052.3	1047.7	1054.0	1051.1
12.5°	1041.5	1039.3	1034.2	1039.8	1037.6
15°	1025.1	1023.4	1017.2	1022.9	1018.9
17.5°	1005.3	1002.5	998.0	1001.4	998.6
20°	983.3	979.9	972.5	975.9	973.1
22.5°	956.7	952.2	947.1	947.1	943.1
25°	926.7	923.4	915.4	913.7	909.2
27.5°	894.5	891.7	881.5	878.7	870.8
30°	858.3	854.4	843.6	834.6	827.8
32.5°	818.2	815.4	800.7	788.8	779.2
35°	778.6	771.8	756.0	739.0	731.1
37.5°	732.2	727.1	707.4	686.4	675.7
40°	685.9	679.7	656.5	633.3	622.0
42.5°	635.5	629.9	607.8	580.1	568.3
45°	590.3	581.3	554.7	524.7	513.4
47.5°	540.6	530.9	502.7	471.0	458.0
50°	488.0	481.7	452.3	421.8	412.2
52.5°	441.0	431.4	403.7	373.8	363.6
55°	396.4	387.3	357.9	329.6	320.6
57.5°	351.7	341.5	316.1	290.6	281.6
60°	309.9	299.7	274.8	253.9	248.2
62.5°	272.0	260.7	238.6	222.2	218.3
65°	233.5	226.2	206.9	195.1	192.8
67.5°	201.3	192.2	177.0	171.3	170.2
70°	171.9	165.7	152.7	151.0	151.0
72.5°	145.3	140.2	130.6	131.7	133.4
75°	121.6	118.2	112.5	114.8	118.2
77.5°	101.2	97.8	94.4	97.8	100.1
80°	82.0	78.6	78.0	80.9	82.6
82.5°	61.6	58.8	59.4	63.9	65.6
85°	43.0	41.3	40.1	45.2	45.8
87.5°	22.1	20.9	20.4	24.3	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)