

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: P290899

Luminaire Tested: **14GR-LD5-24-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290899
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2186.0 lumens
Efficiency: N/A
Efficacy: 117.5 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

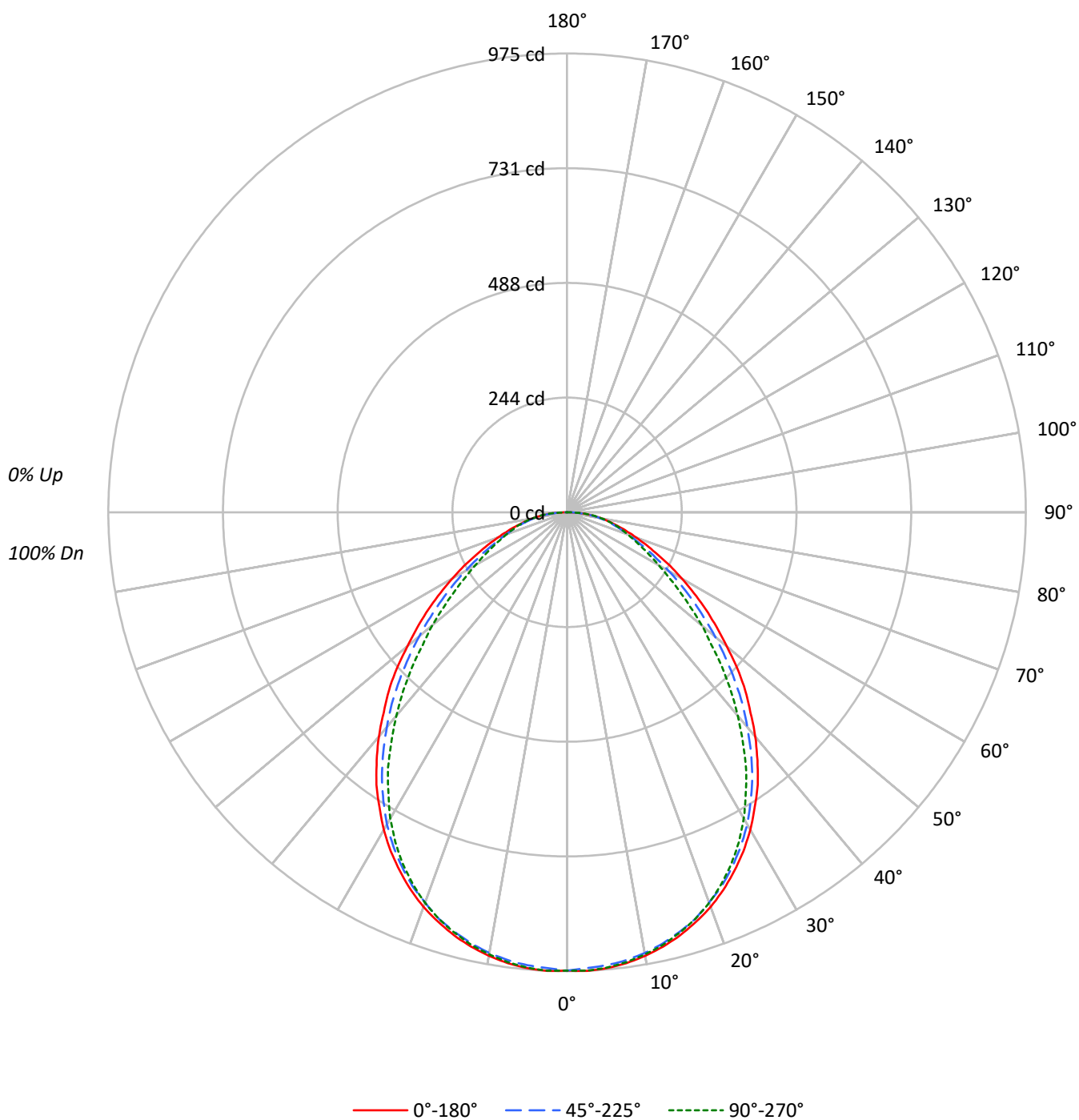
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2620	2620	2620
5°	2626	2610	2624
10°	2615	2598	2606
15°	2591	2572	2576
20°	2555	2527	2529
25°	2497	2466	2450
30°	2420	2379	2334
35°	2321	2254	2179
40°	2186	2093	1983
45°	2039	1915	1773
50°	1854	1719	1566
55°	1688	1524	1365
60°	1513	1342	1212
65°	1349	1196	1114
70°	1227	1090	1078
75°	1147	1062	1115
80°	1153	1097	1161
85°	1204	1124	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	4.2
10°-20°	261.1	11.9
20°-30°	382.8	17.5
30°-40°	427.2	19.5
40°-50°	386.8	17.7
50°-60°	292.0	13.4
60°-70°	190.9	8.7
70°-80°	112.1	5.1
80°-90°	41.1	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°	735.9	33.7
0°-40°	1163.1	53.2
0°-60°	1841.9	84.3
0°-90°	2186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	972	970	966	972	971	92
15°	930	929	923	928	925	262
25°	841	838	831	829	825	387
35°	706	700	686	671	663	440
45°	536	528	503	476	466	412
55°	360	352	325	299	291	322
65°	212	205	188	177	175	213
75°	110	107	102	104	107	118
85°	39	38	36	41	42	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.8	973.8	973.8	973.8	973.8
2.5°	975.4	973.8	969.2	975.4	974.9
5°	972.3	970.3	966.2	971.8	971.3
7.5°	966.2	964.1	960.0	965.1	964.1
10°	956.9	954.9	950.8	956.4	953.8
12.5°	945.1	943.1	938.4	943.6	941.5
15°	930.2	928.7	923.1	928.2	924.6
17.5°	912.3	909.7	905.6	908.7	906.1
20°	892.3	889.2	882.5	885.6	883.0
22.5°	868.2	864.0	859.4	859.4	855.8
25°	841.0	837.9	830.7	829.2	825.1
27.5°	811.7	809.1	799.9	797.3	790.2
30°	778.9	775.3	765.5	757.3	751.2
32.5°	742.4	739.9	726.5	715.8	707.0
35°	706.5	700.4	686.0	670.6	663.4
37.5°	664.5	659.8	641.9	622.9	613.1
40°	622.4	616.7	595.7	574.7	564.4
42.5°	576.7	571.6	551.6	526.4	515.7
45°	535.7	527.5	503.3	476.1	465.9
47.5°	490.5	481.8	456.1	427.4	415.6
50°	442.8	437.2	410.5	382.8	374.0
52.5°	400.2	391.5	366.3	339.2	329.9
55°	359.7	351.5	324.8	299.1	290.9
57.5°	319.1	309.9	286.8	263.7	255.5
60°	281.2	271.9	249.4	230.4	225.2
62.5°	246.8	236.5	216.5	201.6	198.1
65°	211.9	205.2	187.8	177.0	175.0
67.5°	182.7	174.5	160.6	155.5	154.4
70°	156.0	150.3	138.5	137.0	137.0
72.5°	131.9	127.2	118.5	119.6	121.1
75°	110.3	107.2	102.1	104.2	107.2
77.5°	91.8	88.8	85.7	88.8	90.8
80°	74.4	71.3	70.8	73.4	74.9
82.5°	55.9	53.4	53.9	58.0	59.5
85°	39.0	37.5	36.4	41.0	41.6
87.5°	20.0	19.0	18.5	22.1	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)