

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: P290859

Luminaire Tested: **14GR-LD5-24-F125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290859
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-L93050-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: 2254.0 lumens
Efficiency: N/A
Efficacy: 118.8 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

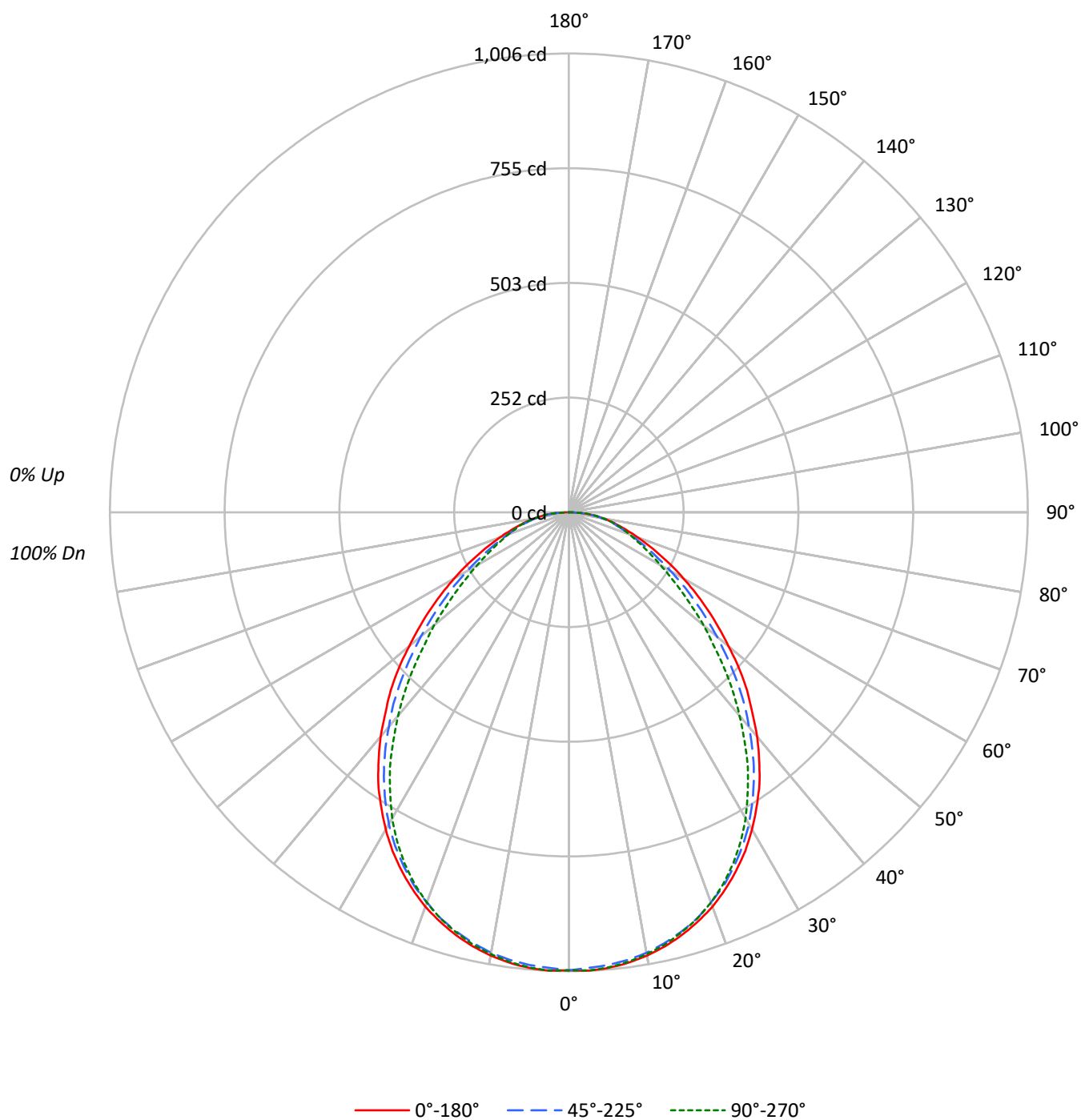
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2702	2702	2702
5°	2708	2691	2705
10°	2696	2679	2687
15°	2672	2652	2656
20°	2635	2606	2607
25°	2575	2543	2526
30°	2495	2453	2407
35°	2393	2324	2247
40°	2254	2158	2044
45°	2102	1975	1828
50°	1912	1772	1615
55°	1740	1571	1407
60°	1560	1384	1250
65°	1391	1233	1149
70°	1265	1124	1112
75°	1182	1095	1150
80°	1189	1131	1196
85°	1241	1161	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	4.2
10°-20°	269.2	11.9
20°-30°	394.7	17.5
30°-40°	440.5	19.5
40°-50°	398.8	17.7
50°-60°	301.1	13.4
60°-70°	196.8	8.7
70°-80°	115.6	5.1
80°-90°	42.3	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°	758.8	33.7
0°-40°	1199.3	53.2
0°-60°	1899.2	84.3
0°-90°	2254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1003	1000	996	1002	1002	95
15°	959	958	952	957	953	270
25°	867	864	856	855	851	399
35°	728	722	707	692	684	454
45°	552	544	519	491	480	424
55°	371	362	335	308	300	332
65°	218	212	194	182	180	219
75°	114	111	105	107	111	122
85°	40	39	38	42	43	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.1	1004.1	1004.1	1004.1	1004.1
2.5°	1005.7	1004.1	999.4	1005.7	1005.2
5°	1002.6	1000.4	996.2	1002.0	1001.5
7.5°	996.2	994.1	989.9	995.1	994.1
10°	986.7	984.6	980.3	986.2	983.5
12.5°	974.5	972.4	967.6	972.9	970.8
15°	959.2	957.6	951.8	957.1	953.4
17.5°	940.7	938.0	933.8	937.0	934.3
20°	920.0	916.8	910.0	913.1	910.5
22.5°	895.2	890.9	886.2	886.2	882.5
25°	867.1	863.9	856.5	854.9	850.7
27.5°	837.0	834.3	824.8	822.1	814.7
30°	803.1	799.4	789.3	780.9	774.5
32.5°	765.5	762.9	749.1	738.0	729.0
35°	728.5	722.2	707.3	691.5	684.1
37.5°	685.1	680.4	661.8	642.3	632.2
40°	641.7	635.9	614.2	592.5	582.0
42.5°	594.7	589.4	568.7	542.8	531.7
45°	552.3	543.9	519.0	491.0	480.4
47.5°	505.8	496.8	470.3	440.7	428.5
50°	456.6	450.8	423.2	394.7	385.7
52.5°	412.7	403.7	377.7	349.7	340.2
55°	370.9	362.4	334.9	308.4	300.0
57.5°	329.1	319.5	295.7	271.9	263.5
60°	289.9	280.4	257.1	237.5	232.3
62.5°	254.5	243.9	223.3	207.9	204.2
65°	218.5	211.6	193.6	182.5	180.4
67.5°	188.3	179.9	165.6	160.3	159.2
70°	160.8	155.0	142.8	141.3	141.3
72.5°	136.0	131.2	122.2	123.3	124.9
75°	113.7	110.6	105.3	107.4	110.6
77.5°	94.7	91.5	88.4	91.5	93.6
80°	76.7	73.5	73.0	75.7	77.2
82.5°	57.7	55.0	55.6	59.8	61.4
85°	40.2	38.6	37.6	42.3	42.9
87.5°	20.6	19.6	19.0	22.7	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)