

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: P290705

Luminaire Tested: **14GR-LD5-24-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2265.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

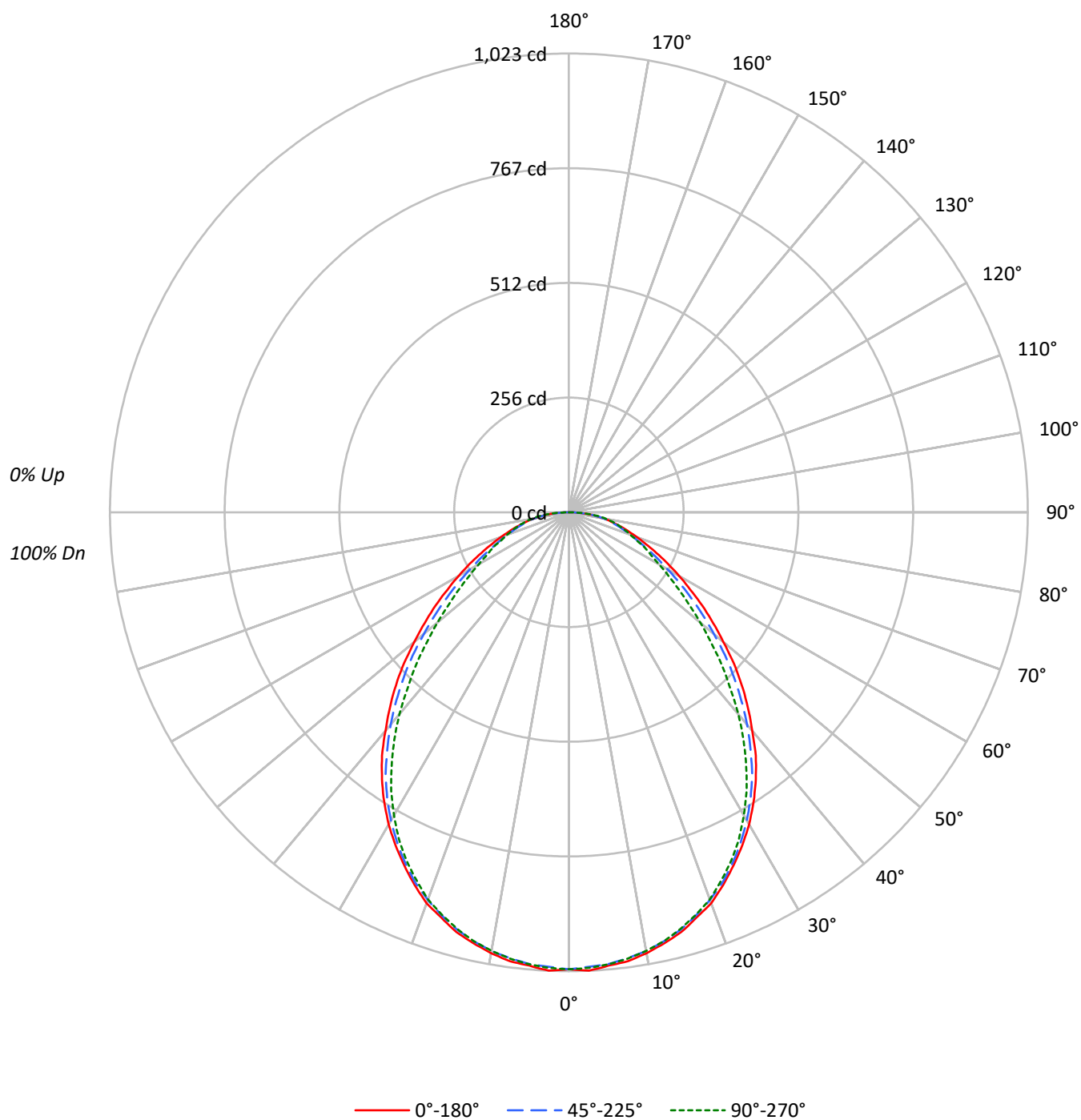
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87
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	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	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		52	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°	2741	2741	2741
5°	2740	2730	2732
10°	2727	2714	2713
15°	2699	2683	2679
20°	2655	2633	2630
25°	2579	2562	2543
30°	2496	2465	2423
35°	2386	2340	2263
40°	2234	2172	2064
45°	2074	1982	1837
50°	1882	1765	1600
55°	1703	1559	1398
60°	1528	1366	1246
65°	1372	1220	1193
70°	1266	1135	1148
75°	1209	1138	1204
80°	1223	1215	1311
85°	1266	1250	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	4.2
10°-20°	271.9	12.0
20°-30°	397.0	17.5
30°-40°	442.4	19.5
40°-50°	398.6	17.6
50°-60°	298.0	13.2
60°-70°	196.6	8.7
70°-80°	120.0	5.3
80°-90°	44.5	2.0
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°	765.0	33.8
0°-40°	1207.4	53.3
0°-60°	1904.0	84.1
0°-90°	2265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1014	1013	1011	1016	1011	96
15°	969	965	963	969	962	273
25°	869	866	863	864	857	400
35°	726	720	712	700	689	453
45°	545	539	521	497	483	420
55°	363	357	332	305	298	325
65°	216	209	192	184	187	216
75°	116	114	110	113	116	124
85°	41	40	40	45	45	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.6	1018.6	1018.6	1018.6	1018.6
2.5°	1022.8	1018.1	1014.0	1020.2	1016.6
5°	1014.5	1013.4	1010.8	1016.0	1011.4
7.5°	1009.3	1005.6	1002.5	1008.8	1003.6
10°	997.9	995.8	993.2	998.4	992.7
12.5°	983.8	981.8	979.2	985.4	979.2
15°	968.8	965.2	963.1	968.8	961.5
17.5°	947.0	945.4	942.3	948.0	940.8
20°	927.3	921.5	919.5	923.6	918.4
22.5°	898.7	894.5	894.0	896.6	887.8
25°	868.6	865.5	862.9	864.4	856.6
27.5°	836.9	832.8	829.6	829.1	820.8
30°	803.2	798.0	793.3	789.2	779.8
32.5°	766.3	760.1	753.8	747.1	737.2
35°	726.3	720.1	712.3	699.9	688.9
37.5°	684.3	677.0	664.5	650.0	639.1
40°	636.0	632.4	618.3	599.7	587.7
42.5°	590.8	586.7	569.0	548.3	532.2
45°	545.1	539.4	520.7	496.9	482.8
47.5°	498.4	492.7	471.9	442.3	429.9
50°	449.6	446.5	421.6	394.6	382.1
52.5°	405.0	401.3	375.9	348.9	337.5
55°	362.9	357.2	332.3	304.8	298.0
57.5°	320.9	314.6	291.3	267.9	263.2
60°	284.0	276.2	253.9	235.7	231.6
62.5°	249.2	240.4	221.7	207.7	205.6
65°	215.5	208.7	191.6	183.8	187.4
67.5°	186.4	179.6	167.2	164.1	163.0
70°	160.9	154.7	144.3	145.4	145.9
72.5°	137.6	133.9	126.2	128.8	130.8
75°	116.3	114.2	109.5	113.2	115.8
77.5°	97.1	95.5	93.5	96.6	100.7
80°	78.9	77.9	78.4	80.5	84.6
82.5°	60.7	58.7	60.2	64.4	67.0
85°	41.0	39.5	40.5	44.6	45.2
87.5°	19.2	19.2	18.7	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)