

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: P290704

Luminaire Tested: **14GR-LD5-24-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290704
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2231.0 lumens
Efficiency: N/A
Efficacy: 119.4 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

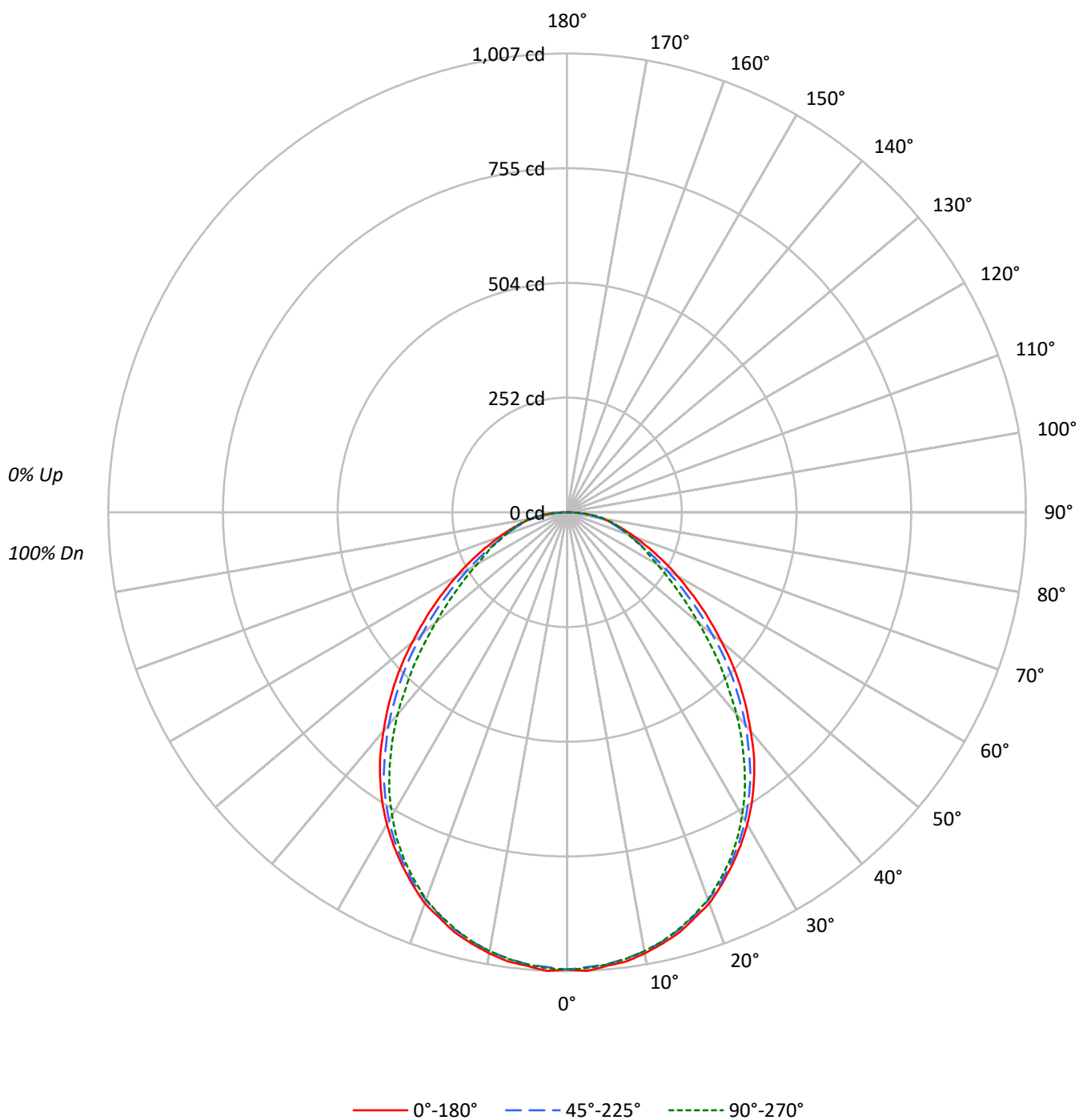
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2700	2700	2700
5°	2699	2690	2691
10°	2686	2673	2672
15°	2658	2643	2639
20°	2615	2594	2590
25°	2540	2523	2505
30°	2458	2428	2387
35°	2350	2305	2229
40°	2200	2140	2034
45°	2044	1952	1810
50°	1854	1738	1576
55°	1677	1536	1377
60°	1505	1346	1228
65°	1351	1202	1175
70°	1247	1119	1131
75°	1192	1122	1185
80°	1204	1196	1292
85°	1247	1232	1374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	4.2
10°-20°	267.8	12.0
20°-30°	391.1	17.5
30°-40°	435.7	19.5
40°-50°	392.6	17.6
50°-60°	293.5	13.2
60°-70°	193.6	8.7
70°-80°	118.2	5.3
80°-90°	43.8	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°	753.5	33.8
0°-40°	1189.3	53.3
0°-60°	1875.4	84.1
0°-90°	2231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	999	998	996	1001	996	95
15°	954	951	949	954	947	269
25°	856	852	850	852	844	394
35°	715	709	702	689	679	446
45°	537	531	513	489	476	413
55°	358	352	327	300	294	320
65°	212	206	189	181	185	213
75°	115	112	108	112	114	122
85°	40	39	40	44	44	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.3	1003.3	1003.3	1003.3	1003.3
2.5°	1007.4	1002.8	998.7	1004.9	1001.3
5°	999.2	998.2	995.7	1000.8	996.2
7.5°	994.1	990.6	987.5	993.6	988.5
10°	982.9	980.8	978.3	983.4	977.8
12.5°	969.1	967.0	964.5	970.6	964.5
15°	954.2	950.7	948.6	954.2	947.1
17.5°	932.8	931.2	928.2	933.8	926.6
20°	913.3	907.7	905.7	909.8	904.6
22.5°	885.2	881.1	880.6	883.2	874.5
25°	855.5	852.5	849.9	851.5	843.8
27.5°	824.4	820.3	817.2	816.7	808.5
30°	791.1	786.0	781.4	777.3	768.1
32.5°	754.8	748.7	742.5	735.9	726.2
35°	715.4	709.3	701.6	689.3	678.6
37.5°	674.0	666.8	654.6	640.3	629.5
40°	626.4	622.9	609.1	590.6	578.9
42.5°	582.0	577.9	560.5	540.0	524.2
45°	537.0	531.3	512.9	489.4	475.6
47.5°	490.9	485.3	464.8	435.7	423.4
50°	442.9	439.8	415.2	388.7	376.4
52.5°	398.9	395.3	370.2	343.7	332.4
55°	357.5	351.8	327.3	300.2	293.5
57.5°	316.0	309.9	286.9	263.9	259.3
60°	279.7	272.1	250.1	232.2	228.1
62.5°	245.5	236.8	218.4	204.6	202.5
65°	212.2	205.6	188.7	181.0	184.6
67.5°	183.6	176.9	164.7	161.6	160.6
70°	158.5	152.4	142.2	143.2	143.7
72.5°	135.5	131.9	124.3	126.8	128.9
75°	114.6	112.5	107.9	111.5	114.0
77.5°	95.6	94.1	92.0	95.1	99.2
80°	77.7	76.7	77.2	79.3	83.4
82.5°	59.8	57.8	59.3	63.4	66.0
85°	40.4	38.9	39.9	44.0	44.5
87.5°	18.9	18.9	18.4	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)