

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: P290608

Luminaire Tested: **14GR-LD5-24-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290608
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-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2516.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

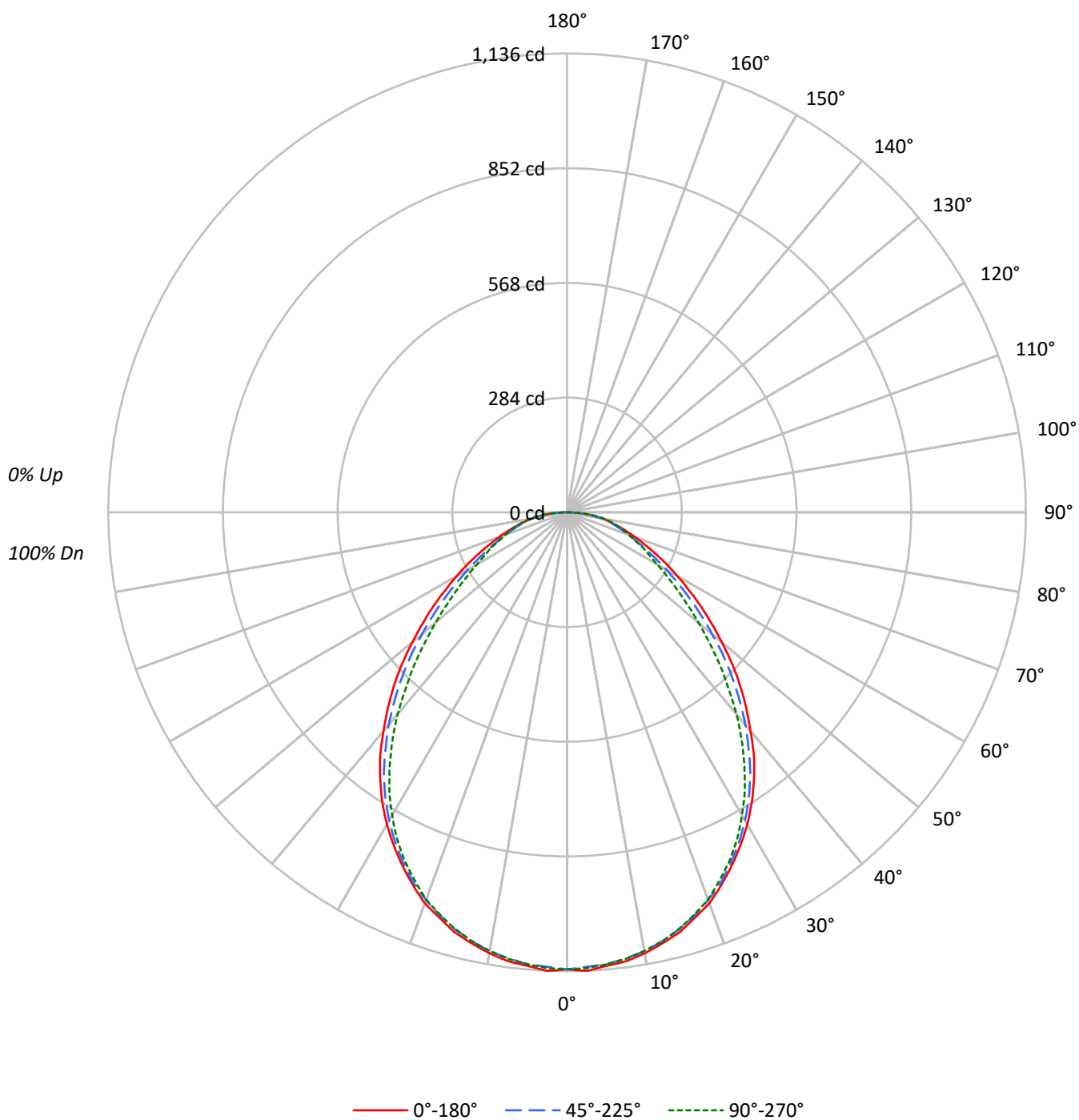
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3045	3045	3045
5°	3044	3033	3035
10°	3029	3014	3013
15°	2998	2980	2976
20°	2950	2925	2922
25°	2865	2846	2825
30°	2772	2738	2692
35°	2650	2599	2514
40°	2482	2413	2293
45°	2304	2201	2041
50°	2091	1961	1777
55°	1891	1732	1553
60°	1698	1518	1384
65°	1524	1355	1326
70°	1407	1261	1275
75°	1343	1265	1337
80°	1359	1350	1457
85°	1408	1389	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	4.2
10°-20°	302.0	12.0
20°-30°	441.0	17.5
30°-40°	491.4	19.5
40°-50°	442.8	17.6
50°-60°	331.0	13.2
60°-70°	218.3	8.7
70°-80°	133.3	5.3
80°-90°	49.4	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°	849.8	33.8
0°-40°	1341.2	53.3
0°-60°	2114.9	84.1
0°-90°	2516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1127	1126	1123	1129	1123	107
15°	1076	1072	1070	1076	1068	303
25°	965	961	958	960	952	444
35°	807	800	791	777	765	503
45°	606	599	578	552	536	466
55°	403	397	369	338	331	361
65°	239	232	213	204	208	240
75°	129	127	122	126	129	138
85°	46	44	45	50	50	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1136.1	1130.9	1126.3	1133.2	1129.2
5°	1126.9	1125.7	1122.9	1128.6	1123.4
7.5°	1121.1	1117.1	1113.6	1120.6	1114.8
10°	1108.4	1106.1	1103.2	1109.0	1102.7
12.5°	1092.9	1090.6	1087.7	1094.6	1087.7
15°	1076.1	1072.1	1069.8	1076.1	1068.1
17.5°	1051.9	1050.2	1046.7	1053.1	1045.0
20°	1030.0	1023.7	1021.4	1026.0	1020.2
22.5°	998.3	993.7	993.1	996.0	986.2
25°	964.8	961.4	958.5	960.2	951.6
27.5°	929.7	925.0	921.6	921.0	911.8
30°	892.2	886.4	881.2	876.6	866.2
32.5°	851.2	844.3	837.4	829.9	818.9
35°	806.8	799.9	791.2	777.4	765.3
37.5°	760.1	752.0	738.2	722.0	709.9
40°	706.5	702.4	686.9	666.1	652.8
42.5°	656.3	651.7	632.1	609.0	591.1
45°	605.5	599.2	578.4	551.9	536.3
47.5°	553.6	547.3	524.2	491.4	477.5
50°	499.4	496.0	468.3	438.3	424.5
52.5°	449.8	445.8	417.5	387.6	374.9
55°	403.1	396.8	369.1	338.5	331.0
57.5°	356.4	349.5	323.5	297.6	292.4
60°	315.5	306.8	282.0	261.8	257.2
62.5°	276.8	267.0	246.3	230.7	228.4
65°	239.3	231.8	212.8	204.2	208.2
67.5°	207.0	199.5	185.7	182.2	181.1
70°	178.8	171.9	160.3	161.5	162.1
72.5°	152.8	148.8	140.1	143.0	145.3
75°	129.2	126.9	121.7	125.7	128.6
77.5°	107.8	106.1	103.8	107.3	111.9
80°	87.7	86.5	87.1	89.4	94.0
82.5°	67.5	65.2	66.9	71.5	74.4
85°	45.6	43.8	45.0	49.6	50.2
87.5°	21.3	21.3	20.8	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)