

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: P290598

Luminaire Tested: **14GR-LD5-20-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290598
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-LD5-20-F1-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2143.0 lumens
Efficiency: N/A
Efficacy: 134.0 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

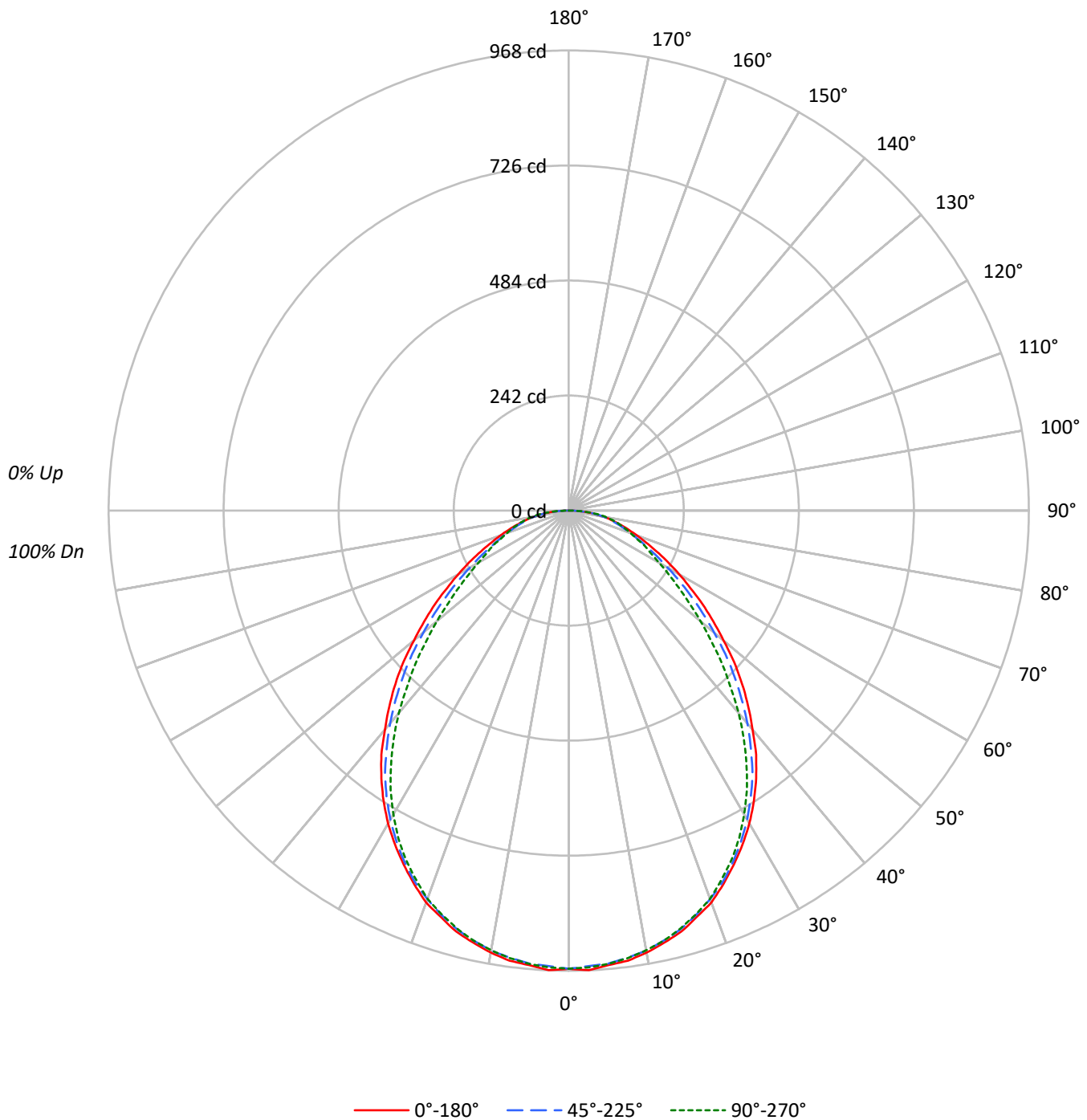
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2594	2594	2594
5°	2593	2583	2585
10°	2580	2568	2566
15°	2554	2539	2534
20°	2512	2491	2489
25°	2440	2424	2407
30°	2361	2332	2293
35°	2258	2214	2141
40°	2114	2055	1953
45°	1963	1875	1738
50°	1781	1670	1513
55°	1611	1475	1323
60°	1446	1293	1179
65°	1298	1154	1129
70°	1198	1075	1086
75°	1144	1077	1138
80°	1158	1150	1241
85°	1198	1183	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	4.2
10°-20°	257.2	12.0
20°-30°	375.6	17.5
30°-40°	418.6	19.5
40°-50°	377.1	17.6
50°-60°	281.9	13.2
60°-70°	186.0	8.7
70°-80°	113.5	5.3
80°-90°	42.1	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°	723.8	33.8
0°-40°	1142.4	53.3
0°-60°	1801.4	84.1
0°-90°	2143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	960	959	956	961	957	91
15°	917	913	911	917	910	258
25°	822	819	816	818	810	378
35°	687	681	674	662	652	428
45°	516	510	493	470	457	397
55°	343	338	314	288	282	308
65°	204	198	181	174	177	204
75°	110	108	104	107	110	118
85°	39	37	38	42	43	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.8	963.8	963.8	963.8	963.8
2.5°	967.7	963.3	959.3	965.2	961.8
5°	959.8	958.8	956.4	961.3	956.9
7.5°	954.9	951.5	948.5	954.4	949.5
10°	944.1	942.1	939.7	944.6	939.2
12.5°	930.8	928.9	926.4	932.3	926.4
15°	916.6	913.2	911.2	916.6	909.7
17.5°	896.0	894.5	891.6	897.0	890.1
20°	877.3	871.9	869.9	873.9	869.0
22.5°	850.3	846.4	845.9	848.3	840.0
25°	821.8	818.9	816.4	817.9	810.5
27.5°	791.8	787.9	785.0	784.5	776.6
30°	759.9	755.0	750.6	746.6	737.8
32.5°	725.0	719.1	713.2	706.9	697.5
35°	687.2	681.3	673.9	662.2	651.8
37.5°	647.4	640.5	628.8	615.0	604.7
40°	601.7	598.3	585.0	567.4	556.1
42.5°	559.0	555.1	538.4	518.7	503.5
45°	515.8	510.4	492.7	470.1	456.8
47.5°	471.6	466.2	446.5	418.5	406.7
50°	425.4	422.4	398.9	373.3	361.5
52.5°	383.1	379.7	355.6	330.1	319.3
55°	343.4	338.0	314.4	288.3	282.0
57.5°	303.6	297.7	275.6	253.5	249.0
60°	268.7	261.3	240.2	223.0	219.1
62.5°	235.8	227.4	209.7	196.5	194.5
65°	203.9	197.5	181.3	173.9	177.3
67.5°	176.3	170.0	158.2	155.2	154.2
70°	152.3	146.4	136.6	137.5	138.0
72.5°	130.2	126.7	119.4	121.8	123.8
75°	110.0	108.1	103.6	107.1	109.5
77.5°	91.9	90.4	88.4	91.4	95.3
80°	74.7	73.7	74.2	76.1	80.1
82.5°	57.5	55.5	57.0	60.9	63.4
85°	38.8	37.3	38.3	42.2	42.7
87.5°	18.2	18.2	17.7	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)