

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: P290562

Luminaire Tested: **14GR-LD5-24-F1-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290562
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2280.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

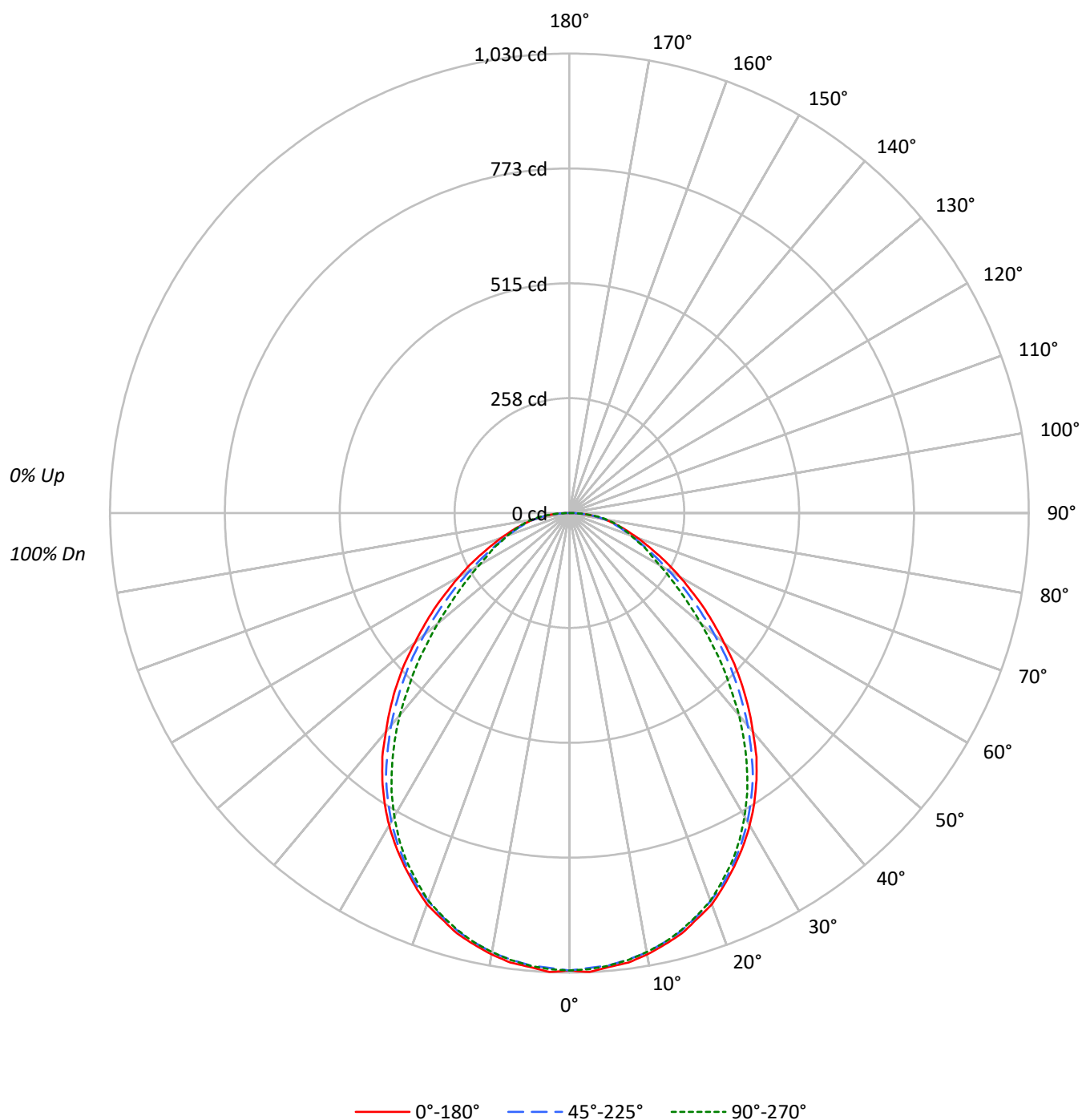
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		48
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		43
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		38
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		34
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		31
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2759	2759	2759
5°	2759	2749	2750
10°	2745	2732	2730
15°	2717	2701	2696
20°	2673	2651	2647
25°	2596	2579	2560
30°	2512	2481	2439
35°	2402	2355	2278
40°	2249	2186	2078
45°	2088	1995	1850
50°	1895	1777	1610
55°	1714	1569	1407
60°	1539	1376	1255
65°	1381	1228	1202
70°	1275	1143	1156
75°	1218	1147	1211
80°	1230	1223	1320
85°	1275	1260	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	4.2
10°-20°	273.7	12.0
20°-30°	399.6	17.5
30°-40°	445.3	19.5
40°-50°	401.2	17.6
50°-60°	299.9	13.2
60°-70°	197.8	8.7
70°-80°	120.8	5.3
80°-90°	44.8	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°	770.1	33.8
0°-40°	1215.4	53.3
0°-60°	1916.6	84.1
0°-90°	2280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1021	1020	1018	1023	1018	97
15°	975	972	970	975	968	274
25°	874	871	869	870	862	402
35°	731	725	717	704	694	456
45°	549	543	524	500	486	422
55°	365	360	334	307	300	327
65°	217	210	193	185	189	217
75°	117	115	110	114	116	125
85°	41	40	41	45	46	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	1029.6	1024.9	1020.7	1026.9	1023.3
5°	1021.2	1020.1	1017.5	1022.8	1018.1
7.5°	1016.0	1012.3	1009.2	1015.4	1010.2
10°	1004.5	1002.4	999.8	1005.0	999.2
12.5°	990.4	988.3	985.7	991.9	985.7
15°	975.2	971.5	969.5	975.2	967.9
17.5°	953.3	951.7	948.5	954.3	947.0
20°	933.4	927.6	925.6	929.7	924.5
22.5°	904.6	900.5	899.9	902.6	893.7
25°	874.3	871.2	868.6	870.2	862.3
27.5°	842.5	838.3	835.1	834.6	826.3
30°	808.5	803.3	798.6	794.4	785.0
32.5°	771.4	765.1	758.8	752.0	742.1
35°	731.1	724.9	717.0	704.5	693.5
37.5°	688.8	681.5	668.9	654.3	643.3
40°	640.2	636.5	622.4	603.6	591.6
42.5°	594.7	590.6	572.8	551.9	535.7
45°	548.7	543.0	524.2	500.1	486.0
47.5°	501.7	496.0	475.1	445.3	432.7
50°	452.6	449.5	424.4	397.2	384.6
52.5°	407.6	404.0	378.4	351.2	339.7
55°	365.3	359.6	334.5	306.8	300.0
57.5°	323.0	316.7	293.2	269.7	265.0
60°	285.9	278.0	255.6	237.3	233.1
62.5°	250.9	242.0	223.2	209.0	207.0
65°	216.9	210.1	192.8	185.0	188.7
67.5°	187.6	180.8	168.3	165.1	164.1
70°	162.0	155.7	145.3	146.3	146.9
72.5°	138.5	134.8	127.0	129.6	131.7
75°	117.1	115.0	110.3	113.9	116.5
77.5°	97.7	96.2	94.1	97.2	101.4
80°	79.4	78.4	78.9	81.0	85.2
82.5°	61.1	59.1	60.6	64.8	67.4
85°	41.3	39.7	40.8	44.9	45.5
87.5°	19.3	19.3	18.8	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)