

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: P290861

Luminaire Tested: **14GR-LD5-28-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-F125-UNV-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2241.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

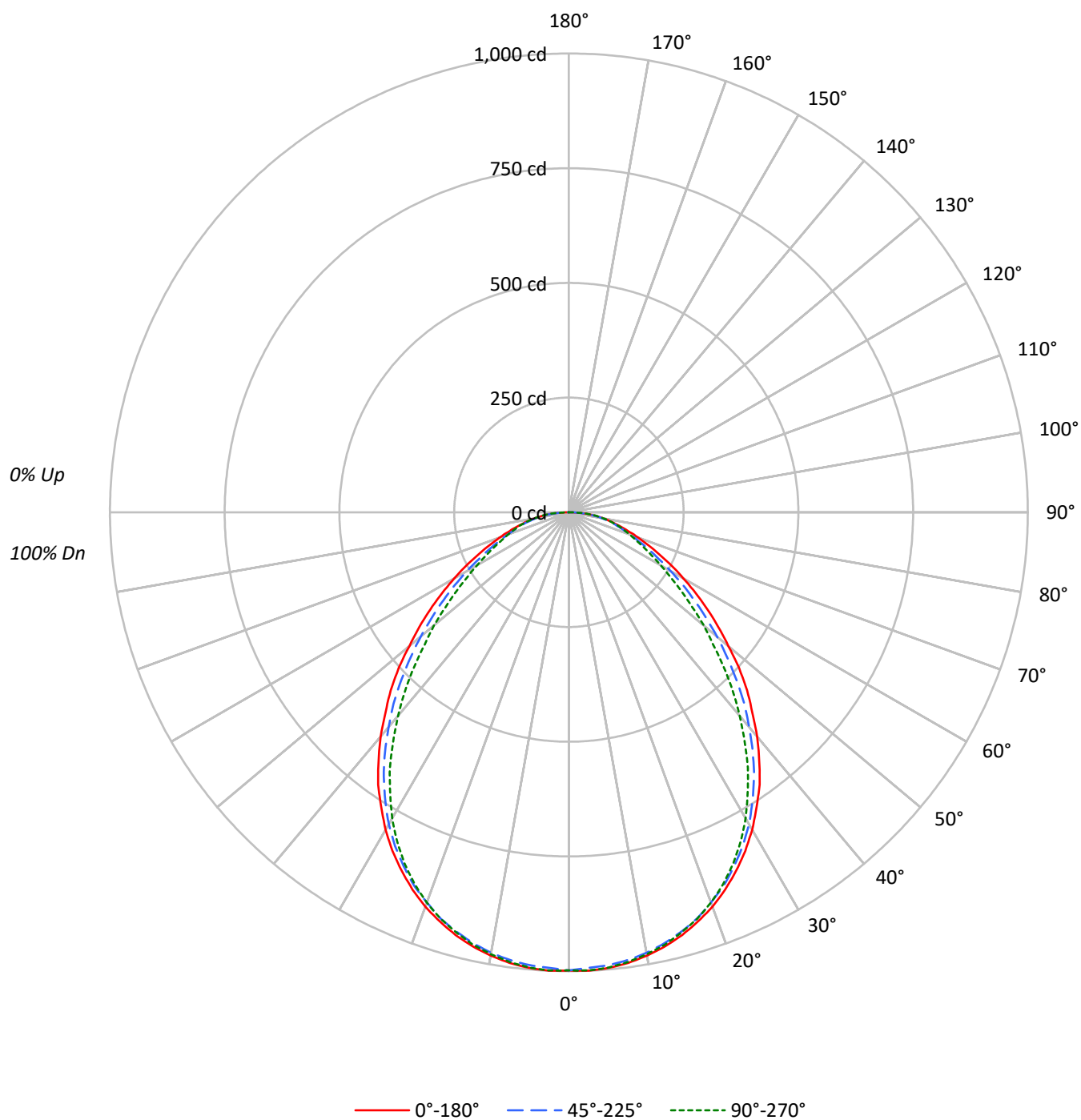
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88
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	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	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		51	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°	2687	2687	2687
5°	2693	2676	2690
10°	2681	2663	2672
15°	2657	2636	2641
20°	2619	2591	2592
25°	2560	2529	2511
30°	2481	2439	2393
35°	2379	2310	2234
40°	2241	2145	2033
45°	2090	1964	1818
50°	1900	1762	1605
55°	1730	1562	1399
60°	1551	1376	1243
65°	1383	1226	1142
70°	1258	1117	1105
75°	1176	1089	1143
80°	1182	1125	1190
85°	1235	1152	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	4.2
10°-20°	267.6	11.9
20°-30°	392.4	17.5
30°-40°	438.0	19.5
40°-50°	396.5	17.7
50°-60°	299.4	13.4
60°-70°	195.7	8.7
70°-80°	114.9	5.1
80°-90°	42.1	1.9
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°	754.4	33.7
0°-40°	1192.4	53.2
0°-60°	1888.3	84.3
0°-90°	2241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	997	995	990	996	996	95
15°	954	952	946	952	948	269
25°	862	859	852	850	846	397
35°	724	718	703	688	680	451
45°	549	541	516	488	478	422
55°	369	360	333	307	298	330
65°	217	210	192	182	179	218
75°	113	110	105	107	110	121
85°	40	38	37	42	43	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.4	998.4	998.4	998.4	998.4
2.5°	999.9	998.4	993.6	999.9	999.4
5°	996.8	994.7	990.5	996.2	995.7
7.5°	990.5	988.4	984.1	989.4	988.4
10°	981.0	978.9	974.7	980.5	977.8
12.5°	968.9	966.8	962.1	967.3	965.2
15°	953.6	952.1	946.3	951.5	947.9
17.5°	935.2	932.6	928.4	931.5	928.9
20°	914.7	911.6	904.7	907.9	905.2
22.5°	890.0	885.8	881.1	881.1	877.4
25°	862.1	859.0	851.6	850.0	845.8
27.5°	832.1	829.5	820.0	817.4	810.0
30°	798.5	794.8	784.8	776.4	770.1
32.5°	761.1	758.5	744.8	733.8	724.8
35°	724.3	718.0	703.3	687.5	680.1
37.5°	681.2	676.4	658.0	638.6	628.6
40°	638.0	632.3	610.7	589.1	578.6
42.5°	591.2	586.0	565.5	539.7	528.6
45°	549.1	540.7	516.0	488.1	477.6
47.5°	502.9	493.9	467.6	438.2	426.1
50°	453.9	448.2	420.8	392.4	383.5
52.5°	410.3	401.3	375.6	347.7	338.2
55°	368.7	360.3	333.0	306.7	298.2
57.5°	327.2	317.7	294.0	270.4	261.9
60°	288.2	278.8	255.6	236.2	230.9
62.5°	253.0	242.5	222.0	206.7	203.0
65°	217.2	210.4	192.5	181.5	179.4
67.5°	187.3	178.8	164.6	159.4	158.3
70°	159.9	154.1	142.0	140.4	140.4
72.5°	135.2	130.4	121.5	122.6	124.1
75°	113.1	109.9	104.7	106.8	109.9
77.5°	94.2	91.0	87.8	91.0	93.1
80°	76.3	73.1	72.6	75.2	76.8
82.5°	57.3	54.7	55.2	59.4	61.0
85°	40.0	38.4	37.3	42.1	42.6
87.5°	20.5	19.5	18.9	22.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)