

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: P290856

Luminaire Tested: **14GR-LD5-24-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290856
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-LD5-24-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: 1877.0 lumens
Efficiency: N/A
Efficacy: 100.4 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

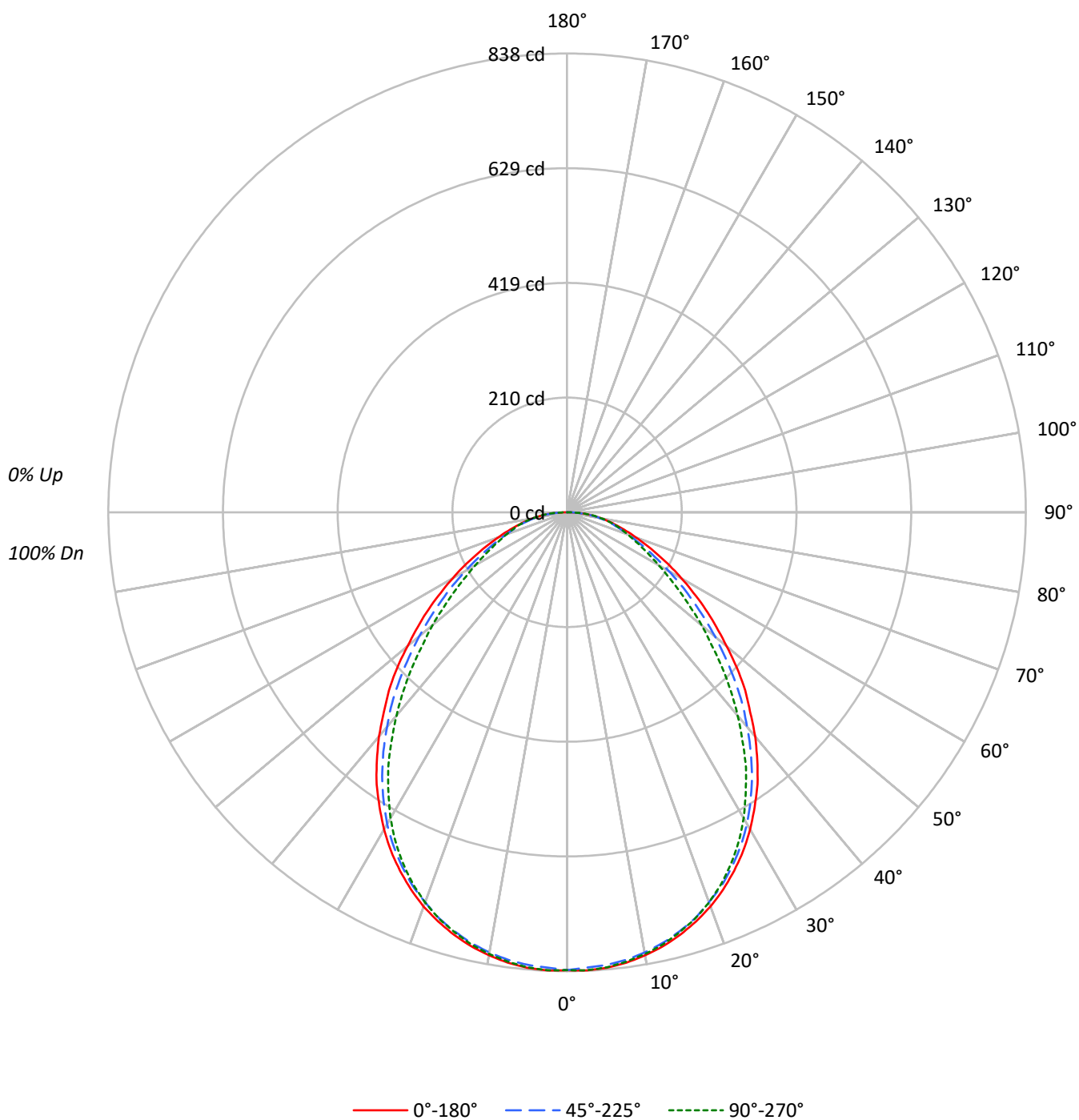
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2250	2250	2250
5°	2255	2241	2253
10°	2245	2231	2238
15°	2225	2208	2212
20°	2194	2170	2171
25°	2144	2118	2103
30°	2078	2042	2004
35°	1993	1935	1872
40°	1877	1797	1702
45°	1750	1645	1522
50°	1592	1476	1345
55°	1449	1308	1172
60°	1299	1152	1041
65°	1159	1026	956
70°	1054	936	925
75°	985	912	958
80°	990	942	996
85°	1034	966	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	4.2
10°-20°	224.2	11.9
20°-30°	328.7	17.5
30°-40°	366.8	19.5
40°-50°	332.1	17.7
50°-60°	250.8	13.4
60°-70°	163.9	8.7
70°-80°	96.3	5.1
80°-90°	35.2	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°	631.9	33.7
0°-40°	998.7	53.2
0°-60°	1581.6	84.3
0°-90°	1877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	835	833	830	834	834	79
15°	799	797	793	797	794	225
25°	722	719	713	712	708	332
35°	607	601	589	576	570	378
45°	460	453	432	409	400	353
55°	309	302	279	257	250	276
65°	182	176	161	152	150	183
75°	95	92	88	89	92	102
85°	34	32	31	35	36	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.2	836.2	836.2	836.2	836.2
2.5°	837.5	836.2	832.2	837.5	837.1
5°	834.9	833.1	829.6	834.4	834.0
7.5°	829.6	827.8	824.3	828.7	827.8
10°	821.7	819.9	816.4	821.2	819.0
12.5°	811.5	809.8	805.8	810.2	808.4
15°	798.7	797.4	792.6	797.0	793.9
17.5°	783.3	781.1	777.6	780.2	778.0
20°	766.1	763.5	757.8	760.4	758.2
22.5°	745.4	741.9	737.9	737.9	734.9
25°	722.1	719.4	713.3	712.0	708.4
27.5°	697.0	694.8	686.8	684.6	678.5
30°	668.8	665.7	657.3	650.3	645.0
32.5°	637.5	635.3	623.8	614.6	607.1
35°	606.7	601.4	589.0	575.8	569.7
37.5°	570.5	566.6	551.1	534.8	526.5
40°	534.4	529.6	511.5	493.4	484.6
42.5°	495.2	490.8	473.6	452.0	442.8
45°	459.9	452.9	432.2	408.8	400.0
47.5°	421.2	413.7	391.7	367.0	356.9
50°	380.2	375.4	352.5	328.7	321.2
52.5°	343.6	336.2	314.6	291.2	283.3
55°	308.8	301.8	278.9	256.8	249.8
57.5°	274.0	266.1	246.3	226.5	219.4
60°	241.4	233.5	214.1	197.8	193.4
62.5°	211.9	203.1	185.9	173.1	170.1
65°	182.0	176.2	161.2	152.0	150.2
67.5°	156.8	149.8	137.9	133.5	132.6
70°	133.9	129.1	119.0	117.6	117.6
72.5°	113.2	109.3	101.8	102.7	104.0
75°	94.7	92.1	87.7	89.4	92.1
77.5°	78.9	76.2	73.6	76.2	78.0
80°	63.9	61.2	60.8	63.0	64.3
82.5°	48.0	45.8	46.3	49.8	51.1
85°	33.5	32.2	31.3	35.2	35.7
87.5°	17.2	16.3	15.9	18.9	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)