

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: P291248

Luminaire Tested: **14GR-LD5-24-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A125-UNV-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1899.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

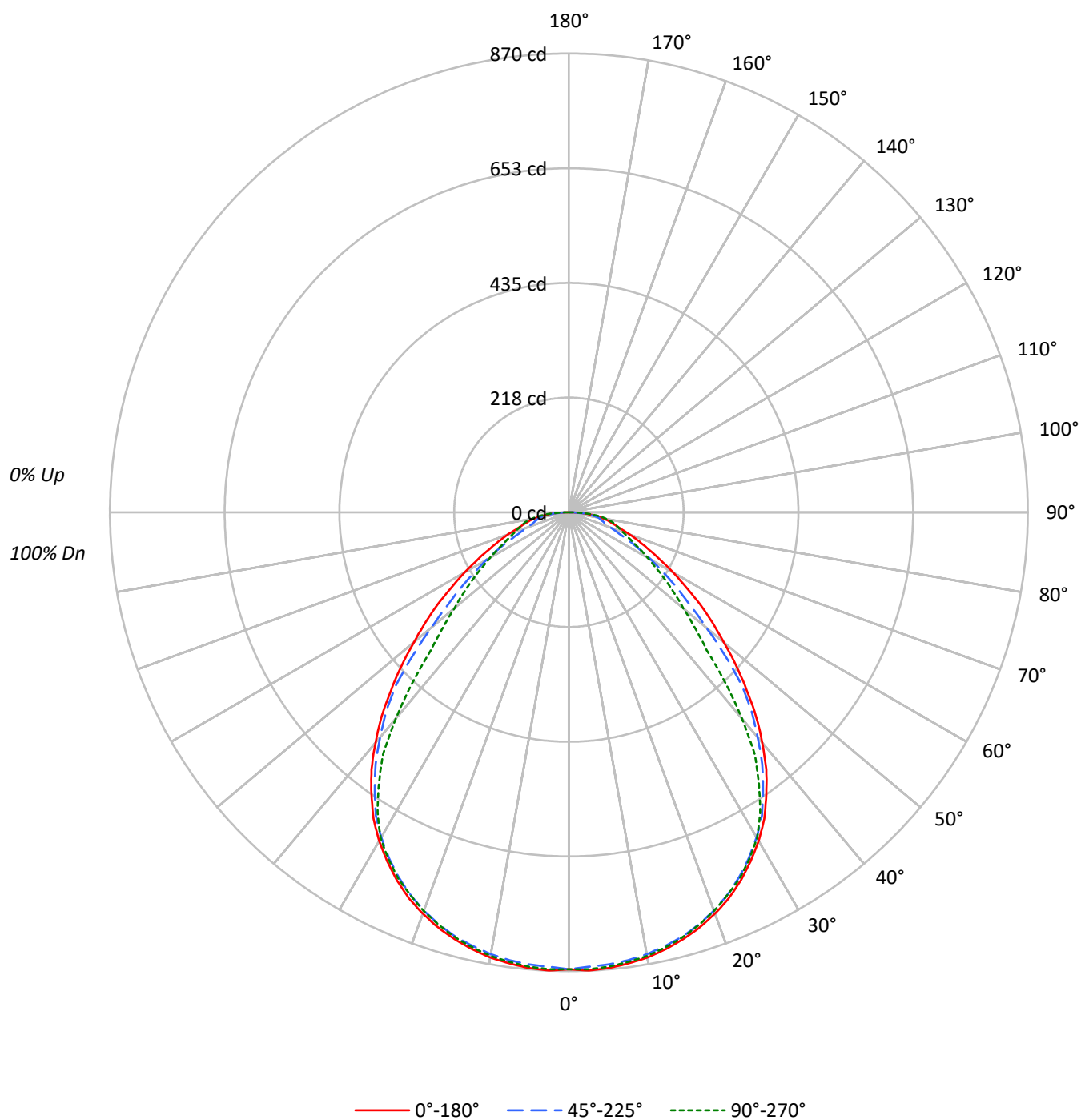
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2332	2332	2332
5°	2343	2325	2336
10°	2343	2325	2334
15°	2334	2320	2323
20°	2319	2301	2304
25°	2288	2267	2273
30°	2235	2211	2216
35°	2144	2107	2062
40°	2004	1955	1794
45°	1814	1762	1407
50°	1605	1425	1186
55°	1420	1172	1046
60°	1226	970	927
65°	1066	772	853
70°	964	662	853
75°	925	691	952
80°	1031	880	1113
85°	1087	939	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	4.3
10°-20°	235.6	12.4
20°-30°	352.5	18.6
30°-40°	399.1	21.0
40°-50°	339.9	17.9
50°-60°	230.1	12.1
60°-70°	137.4	7.2
70°-80°	85.8	4.5
80°-90°	36.3	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°	670.3	35.3
0°-40°	1069.4	56.3
0°-60°	1639.4	86.3
0°-90°	1899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	868	865	861	866	865	82
15°	838	835	833	838	834	236
25°	770	768	764	767	766	354
35°	652	648	641	635	628	407
45°	477	478	463	395	370	368
55°	303	286	250	223	223	271
65°	167	140	121	130	134	169
75°	89	80	66	87	92	96
85°	35	33	30	38	43	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.6	866.6	866.6	866.6	866.6
2.5°	869.7	867.5	862.6	868.3	867.5
5°	867.5	865.3	860.8	866.1	864.8
7.5°	863.0	860.8	856.9	862.2	860.0
10°	857.3	854.7	850.7	856.4	854.2
12.5°	848.5	845.9	842.3	848.1	845.0
15°	837.9	834.9	832.7	837.9	834.0
17.5°	825.2	822.5	819.4	824.7	820.3
20°	809.7	807.5	803.6	806.7	804.5
22.5°	792.1	789.0	785.1	788.6	785.5
25°	770.5	768.3	763.5	767.0	765.7
27.5°	745.9	744.5	738.8	743.2	741.0
30°	719.4	715.9	711.5	712.8	713.3
32.5°	689.0	684.6	681.1	678.0	674.9
35°	652.5	648.5	641.4	634.8	627.8
37.5°	614.6	609.3	602.2	587.7	578.9
40°	570.5	567.9	556.4	536.2	510.6
42.5°	525.6	522.9	512.8	467.4	439.7
45°	476.7	478.0	463.0	394.7	369.6
47.5°	430.0	433.5	400.9	337.0	323.8
50°	383.3	387.2	340.5	291.2	283.3
52.5°	342.3	339.2	290.3	255.5	252.0
55°	302.7	285.9	249.8	222.9	222.9
57.5°	262.1	238.3	212.3	195.2	195.2
60°	227.8	198.3	180.2	168.7	172.3
62.5°	196.0	164.8	149.3	147.1	151.6
65°	167.4	139.7	121.2	129.5	133.9
67.5°	144.1	119.4	99.6	117.2	119.8
70°	122.5	104.0	84.1	107.9	108.4
72.5°	102.6	91.6	72.3	97.8	99.6
75°	89.0	79.7	66.5	87.2	91.6
77.5°	78.0	68.3	61.2	75.3	83.7
80°	66.5	56.0	56.8	63.4	71.8
82.5°	51.1	43.2	44.9	52.0	58.6
85°	35.2	32.6	30.4	38.3	43.2
87.5°	18.9	17.6	15.4	21.6	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)