

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: P291249

Luminaire Tested: **14GR-LD5-24-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291249
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2075.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

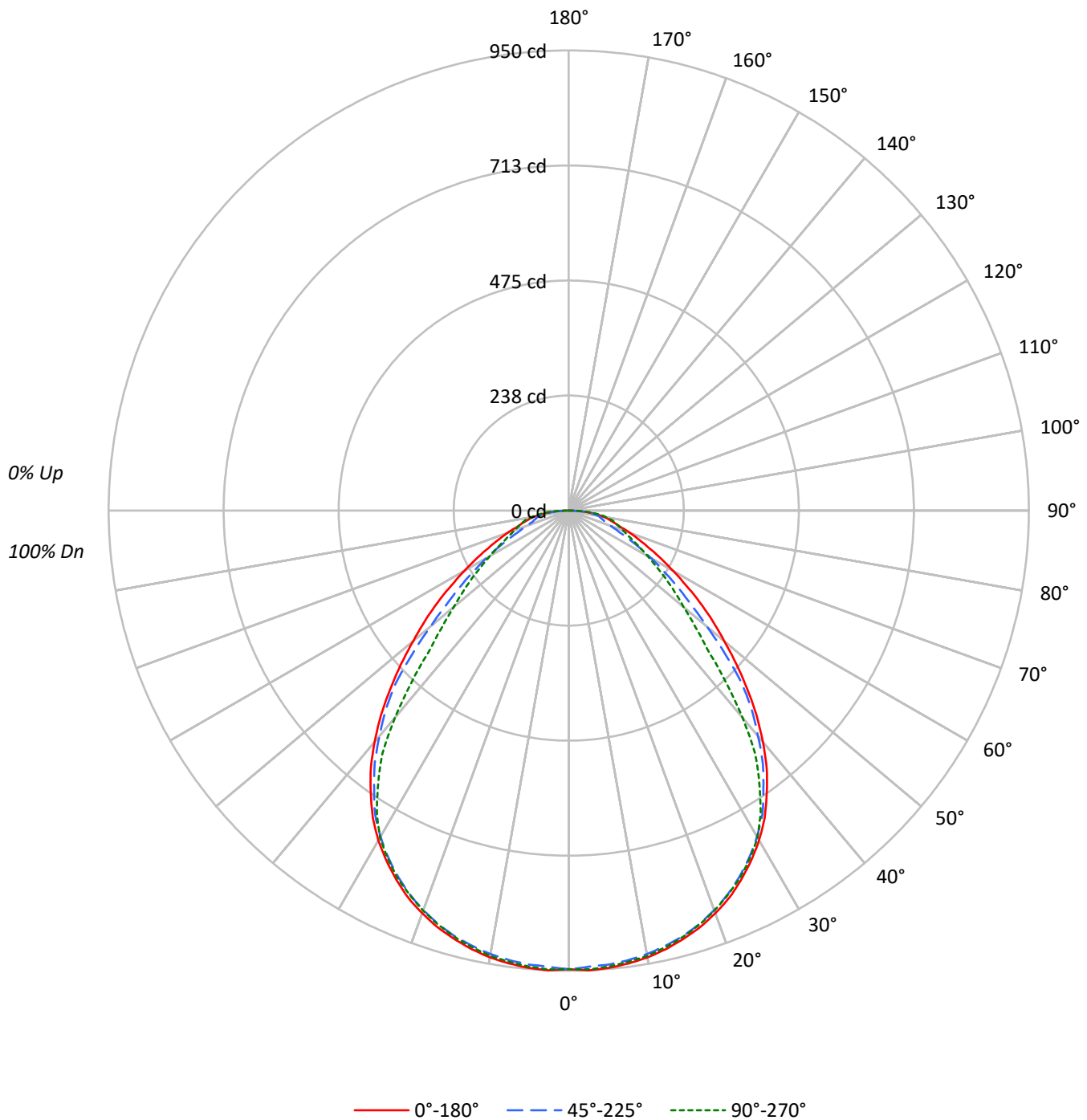
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291249

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P291249

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L93050-W2A1-U-3500K

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	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		64
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		56
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		44
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		36
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		33
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2548	2548	2548
5°	2561	2541	2553
10°	2560	2540	2551
15°	2551	2535	2539
20°	2534	2514	2517
25°	2500	2477	2484
30°	2443	2416	2422
35°	2342	2303	2254
40°	2190	2136	1960
45°	1982	1925	1537
50°	1753	1558	1296
55°	1552	1280	1143
60°	1340	1060	1013
65°	1165	843	932
70°	1053	723	932
75°	1011	756	1041
80°	1127	962	1216
85°	1189	1025	1457



TEST NUMBER: P291249

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	4.3
10°-20°	257.4	12.4
20°-30°	385.2	18.6
30°-40°	436.1	21.0
40°-50°	371.4	17.9
50°-60°	251.5	12.1
60°-70°	150.1	7.2
70°-80°	93.8	4.5
80°-90°	39.6	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°	732.4	35.3
0°-40°	1168.5	56.3
0°-60°	1791.4	86.3
0°-90°	2075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	948	945	941	946	945	90
15°	916	912	910	916	911	258
25°	842	840	834	838	837	387
35°	713	709	701	694	686	444
45°	521	522	506	431	404	402
55°	331	312	273	244	244	296
65°	183	153	132	142	146	184
75°	97	87	73	95	100	105
85°	38	36	33	42	47	41
90°	0	0	0	0	0	



TEST NUMBER: P291249

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.9	946.9	946.9	946.9	946.9
2.5°	950.3	947.9	942.6	948.8	947.9
5°	947.9	945.4	940.6	946.4	945.0
7.5°	943.0	940.6	936.3	942.1	939.7
10°	936.8	933.9	929.6	935.8	933.4
12.5°	927.2	924.3	920.4	926.7	923.3
15°	915.6	912.2	909.8	915.6	911.3
17.5°	901.6	898.7	895.4	901.2	896.3
20°	884.8	882.4	878.0	881.4	879.0
22.5°	865.5	862.2	857.8	861.7	858.3
25°	841.9	839.5	834.2	838.1	836.7
27.5°	815.0	813.5	807.3	812.1	809.7
30°	786.1	782.3	777.4	778.9	779.4
32.5°	752.9	748.1	744.2	740.9	737.5
35°	712.9	708.6	700.9	693.7	686.0
37.5°	671.5	665.8	658.1	642.2	632.5
40°	623.4	620.5	608.0	585.8	557.9
42.5°	574.3	571.4	560.3	510.8	480.4
45°	520.9	522.3	505.9	431.3	403.9
47.5°	469.8	473.7	438.1	368.3	353.8
50°	418.8	423.1	372.1	318.2	309.5
52.5°	374.0	370.7	317.2	279.2	275.4
55°	330.7	312.4	272.9	243.6	243.6
57.5°	286.4	260.4	232.0	213.3	213.3
60°	248.9	216.6	196.9	184.4	188.2
62.5°	214.2	180.0	163.2	160.8	165.6
65°	182.9	152.6	132.4	141.5	146.3
67.5°	157.4	130.5	108.8	128.0	130.9
70°	133.8	113.6	91.9	117.9	118.4
72.5°	112.2	100.1	78.9	106.9	108.8
75°	97.2	87.1	72.7	95.3	100.1
77.5°	85.2	74.6	66.9	82.3	91.5
80°	72.7	61.1	62.1	69.3	78.5
82.5°	55.8	47.2	49.1	56.8	64.0
85°	38.5	35.6	33.2	41.9	47.2
87.5°	20.7	19.3	16.8	23.6	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)