

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: P291153

Luminaire Tested: **14GR-LD5-24-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291153
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-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2588.0 lumens
Efficiency: N/A
Efficacy: 135.1 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

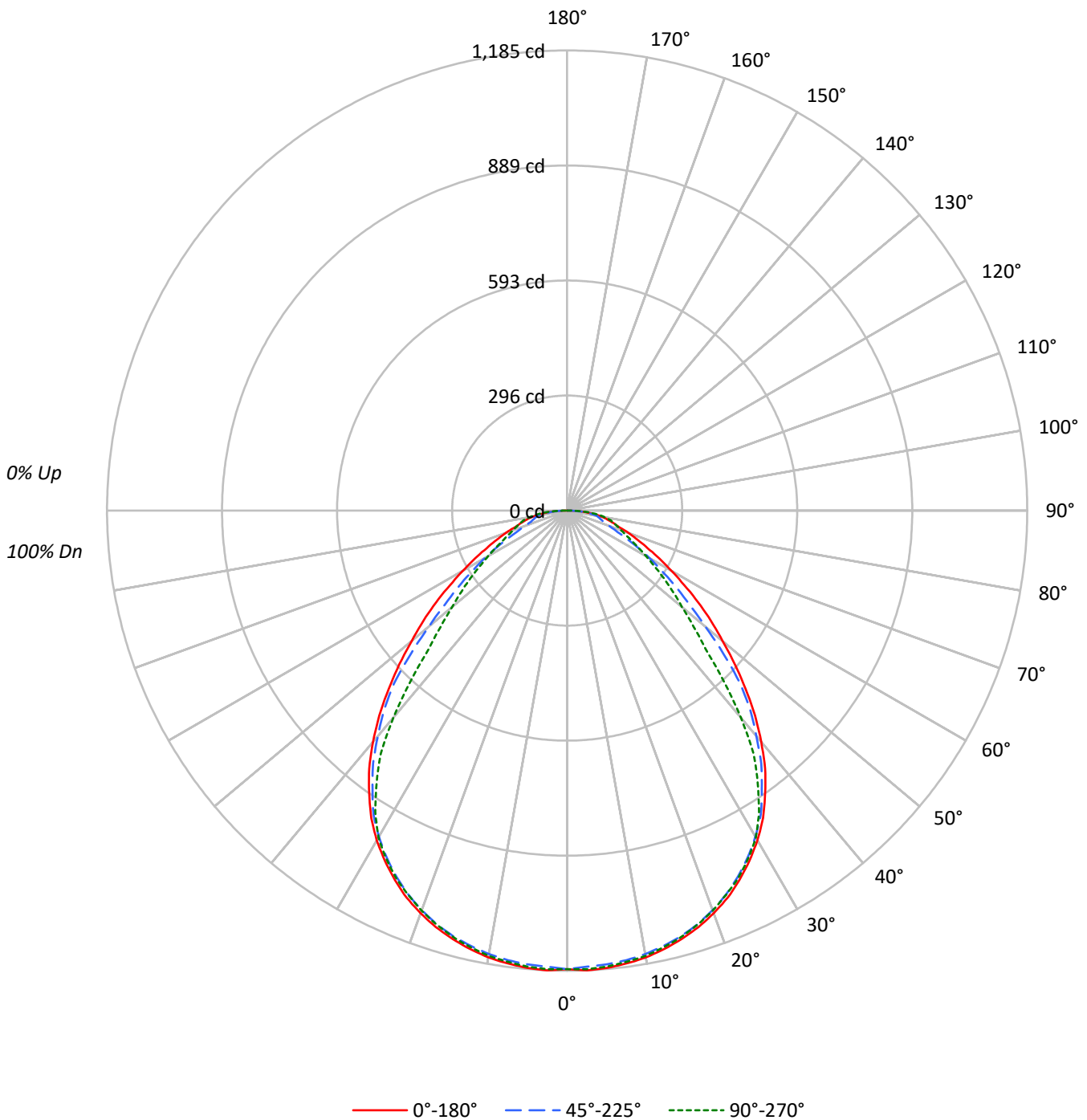
Input Watts (W): 19.158
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3178	3178	3178
5°	3193	3169	3184
10°	3193	3168	3181
15°	3182	3161	3166
20°	3160	3136	3139
25°	3118	3089	3098
30°	3047	3013	3020
35°	2921	2872	2811
40°	2731	2664	2445
45°	2472	2401	1917
50°	2187	1943	1616
55°	1935	1597	1425
60°	1671	1322	1264
65°	1453	1051	1162
70°	1313	902	1162
75°	1261	943	1299
80°	1406	1201	1517
85°	1482	1278	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	4.3
10°-20°	321.0	12.4
20°-30°	480.4	18.6
30°-40°	543.9	21.0
40°-50°	463.3	17.9
50°-60°	313.7	12.1
60°-70°	187.3	7.2
70°-80°	117.0	4.5
80°-90°	49.4	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°	913.5	35.3
0°-40°	1457.4	56.3
0°-60°	2234.3	86.3
0°-90°	2588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1182	1179	1173	1180	1179	112
15°	1142	1138	1135	1142	1137	322
25°	1050	1047	1040	1045	1044	483
35°	889	884	874	865	856	554
45°	650	651	631	538	504	501
55°	412	390	340	304	304	369
65°	228	190	165	176	182	230
75°	121	109	91	119	125	131
85°	48	44	41	52	59	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.0	1181.0	1181.0	1181.0	1181.0
2.5°	1185.2	1182.2	1175.6	1183.4	1182.2
5°	1182.2	1179.2	1173.2	1180.4	1178.6
7.5°	1176.2	1173.2	1167.8	1175.0	1172.0
10°	1168.4	1164.8	1159.4	1167.2	1164.2
12.5°	1156.4	1152.8	1148.0	1155.8	1151.6
15°	1142.0	1137.8	1134.8	1142.0	1136.6
17.5°	1124.5	1120.9	1116.7	1123.9	1117.9
20°	1103.5	1100.5	1095.1	1099.3	1096.3
22.5°	1079.5	1075.3	1069.9	1074.7	1070.5
25°	1050.1	1047.1	1040.5	1045.3	1043.5
27.5°	1016.5	1014.7	1006.9	1012.9	1009.9
30°	980.5	975.6	969.6	971.4	972.0
32.5°	939.0	933.0	928.2	924.0	919.8
35°	889.2	883.8	874.2	865.2	855.6
37.5°	837.6	830.4	820.7	800.9	788.9
40°	777.5	773.9	758.3	730.7	695.9
42.5°	716.3	712.7	698.9	637.0	599.2
45°	649.6	651.4	631.0	538.0	503.7
47.5°	586.0	590.8	546.4	459.3	441.3
50°	522.3	527.8	464.1	396.9	386.1
52.5°	466.5	462.3	395.7	348.2	343.4
55°	412.5	389.7	340.4	303.8	303.8
57.5°	357.2	324.8	289.4	266.0	266.0
60°	310.4	270.2	245.6	230.0	234.8
62.5°	267.2	224.5	203.5	200.5	206.5
65°	228.2	190.3	165.1	176.5	182.5
67.5°	196.3	162.7	135.7	159.7	163.3
70°	166.9	141.7	114.7	147.1	147.7
72.5°	139.9	124.9	98.5	133.3	135.7
75°	121.3	108.7	90.7	118.9	124.9
77.5°	106.3	93.1	83.5	102.7	114.1
80°	90.7	76.3	77.5	86.5	97.9
82.5°	69.6	58.8	61.2	70.8	79.9
85°	48.0	44.4	41.4	52.2	58.8
87.5°	25.8	24.0	21.0	29.4	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)