

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: P293840

Luminaire Tested: **24GR-LD5-30-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A125-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2767.0 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

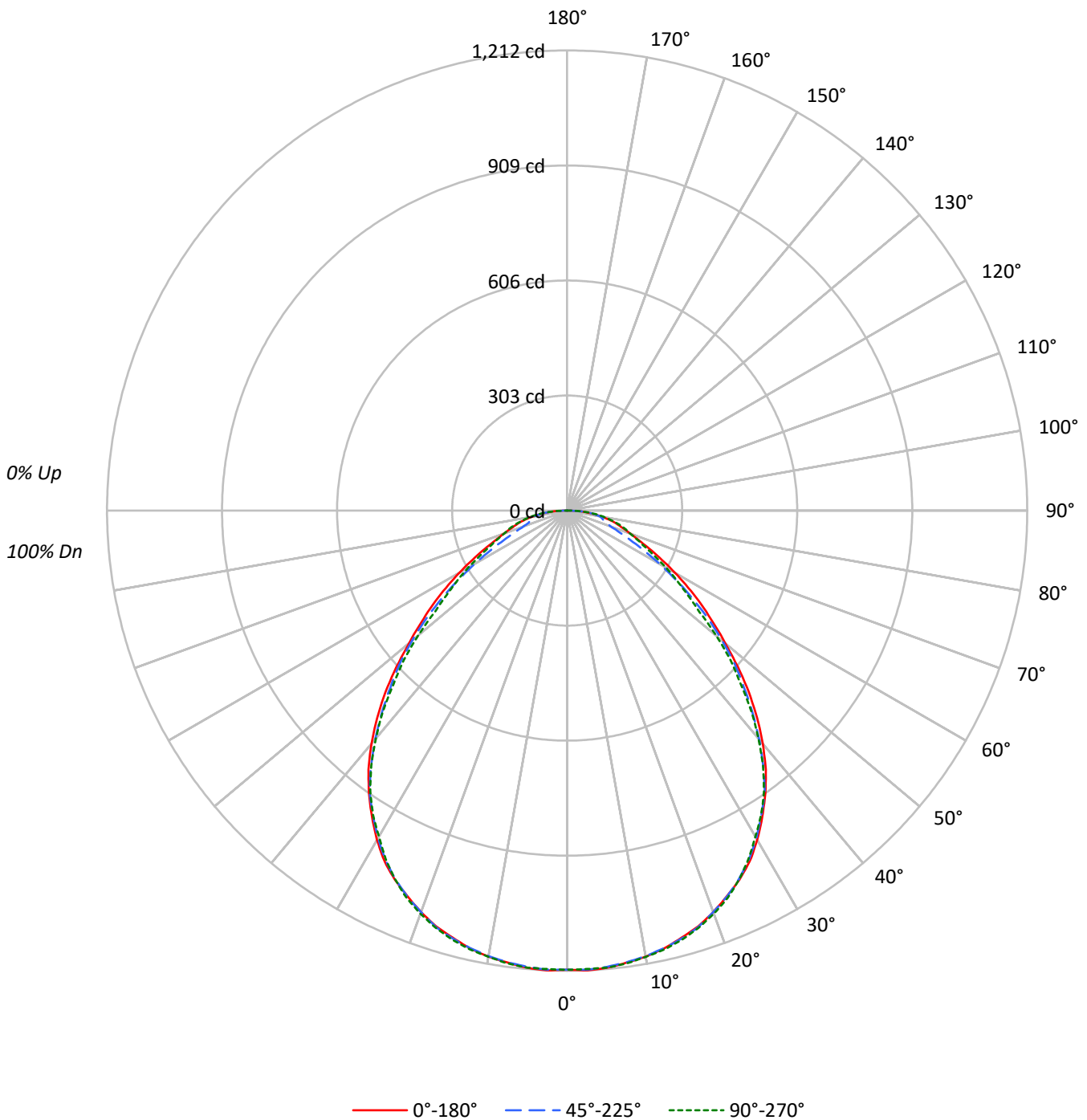
Input Watts (W): 20.367
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1627	1627	1627
5°	1633	1629	1632
10°	1630	1628	1631
15°	1622	1625	1629
20°	1611	1611	1618
25°	1593	1590	1591
30°	1556	1548	1540
35°	1495	1490	1485
40°	1408	1382	1376
45°	1288	1253	1230
50°	1138	1116	1073
55°	1013	944	907
60°	882	755	810
65°	761	585	716
70°	694	479	693
75°	700	516	736
80°	729	673	776
85°	760	800	860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	4.1
10°-20°	328.9	11.9
20°-30°	492.4	17.8
30°-40°	562.6	20.3
40°-50°	508.7	18.4
50°-60°	366.0	13.2
60°-70°	212.2	7.7
70°-80°	125.9	4.5
80°-90°	55.8	2.0
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°	936.0	33.8
0°-40°	1498.6	54.2
0°-60°	2373.2	85.8
0°-90°	2767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1209	1207	1206	1204	1208	115
15°	1165	1167	1167	1166	1170	329
25°	1073	1072	1071	1069	1072	493
35°	910	906	907	896	904	567
45°	677	665	658	652	646	520
55°	432	424	402	392	387	386
65°	239	212	184	206	225	241
75°	135	113	99	123	142	142
85°	49	53	52	60	56	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1209.1	1209.1	1209.1	1209.1	1209.1
2.5°	1212.5	1208.2	1210.4	1209.1	1208.7
5°	1208.7	1206.9	1206.1	1204.3	1208.2
7.5°	1200.9	1199.6	1200.0	1200.4	1203.0
10°	1193.1	1191.0	1191.4	1192.2	1193.5
12.5°	1181.0	1179.7	1180.2	1181.0	1184.0
15°	1164.6	1166.8	1166.8	1165.5	1169.8
17.5°	1148.2	1147.8	1149.9	1146.1	1152.1
20°	1125.3	1125.8	1125.3	1125.8	1129.7
22.5°	1099.4	1101.6	1100.3	1100.3	1104.6
25°	1073.1	1071.8	1071.0	1068.8	1071.8
27.5°	1041.6	1039.0	1036.9	1032.5	1034.7
30°	1001.5	1001.9	996.3	992.4	991.5
32.5°	956.6	956.6	951.4	948.4	950.9
35°	909.9	905.6	907.4	896.1	903.9
37.5°	859.4	852.5	848.6	844.8	847.4
40°	801.6	792.5	786.9	779.1	783.5
42.5°	740.7	729.5	722.6	717.0	718.7
45°	676.8	665.2	658.3	652.2	646.2
47.5°	609.5	602.2	598.7	590.9	584.0
50°	543.9	541.3	533.1	526.6	512.4
52.5°	483.9	481.7	468.8	458.0	439.9
55°	431.7	423.5	402.3	391.9	386.8
57.5°	378.6	365.2	339.7	338.4	341.9
60°	327.6	311.2	280.6	287.5	300.9
62.5°	281.4	256.8	227.5	243.9	259.9
65°	239.1	212.4	183.9	205.5	224.9
67.5°	204.2	177.4	148.1	177.0	199.4
70°	176.5	149.4	121.7	155.0	176.1
72.5°	153.7	129.1	106.2	137.7	159.7
75°	134.7	112.7	99.3	122.6	141.6
77.5°	115.7	98.0	95.0	109.2	120.9
80°	94.1	85.9	86.8	95.8	100.1
82.5°	70.4	70.8	73.0	80.3	78.6
85°	49.2	53.1	51.8	59.6	55.7
87.5°	27.2	29.8	28.1	34.1	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)