

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: P293712

Luminaire Tested: **24GR-LD5-30-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293712
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-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2983.0 lumens
Efficiency: N/A
Efficacy: 148.5 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

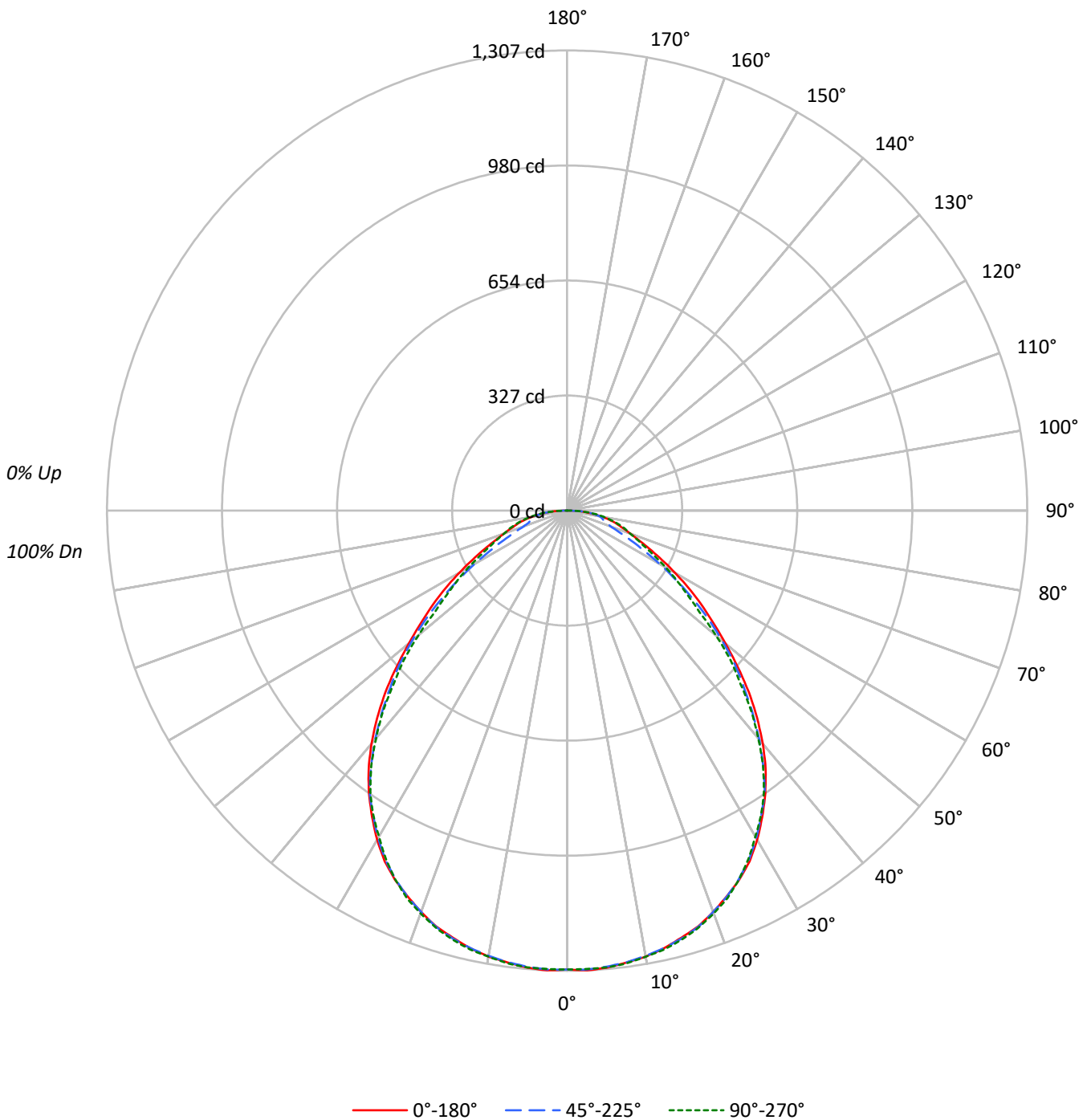
Input Watts (W): 20.088
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	69	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°	1754	1754	1754
5°	1760	1756	1759
10°	1757	1755	1758
15°	1749	1752	1757
20°	1737	1737	1744
25°	1718	1714	1715
30°	1677	1669	1661
35°	1611	1607	1601
40°	1518	1490	1483
45°	1388	1350	1325
50°	1227	1203	1156
55°	1092	1017	978
60°	950	814	873
65°	821	631	772
70°	749	516	747
75°	755	556	793
80°	786	724	837
85°	820	861	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	4.1
10°-20°	354.6	11.9
20°-30°	530.8	17.8
30°-40°	606.5	20.3
40°-50°	548.4	18.4
50°-60°	394.5	13.2
60°-70°	228.7	7.7
70°-80°	135.7	4.5
80°-90°	60.1	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°	1009.1	33.8
0°-40°	1615.6	54.2
0°-60°	2558.5	85.8
0°-90°	2983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1303	1301	1300	1298	1302	124
15°	1256	1258	1258	1256	1261	354
25°	1157	1156	1155	1152	1156	532
35°	981	976	978	966	974	612
45°	730	717	710	703	697	561
55°	465	456	434	422	417	416
65°	258	229	198	222	242	260
75°	145	122	107	132	153	153
85°	53	57	56	64	60	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.5	1303.5	1303.5	1303.5	1303.5
2.5°	1307.2	1302.5	1304.9	1303.5	1303.0
5°	1303.0	1301.1	1300.2	1298.3	1302.5
7.5°	1294.6	1293.2	1293.7	1294.2	1297.0
10°	1286.2	1283.9	1284.4	1285.3	1286.7
12.5°	1273.2	1271.8	1272.3	1273.2	1276.5
15°	1255.5	1257.9	1257.9	1256.5	1261.1
17.5°	1237.9	1237.4	1239.7	1235.5	1242.0
20°	1213.2	1213.7	1213.2	1213.7	1217.8
22.5°	1185.3	1187.6	1186.2	1186.2	1190.9
25°	1156.9	1155.5	1154.6	1152.2	1155.5
27.5°	1122.9	1120.1	1117.8	1113.1	1115.5
30°	1079.6	1080.1	1074.0	1069.9	1068.9
32.5°	1031.2	1031.2	1025.6	1022.4	1025.2
35°	981.0	976.3	978.2	966.1	974.5
37.5°	926.5	919.1	914.9	910.7	913.5
40°	864.2	854.4	848.3	840.0	844.6
42.5°	798.6	786.5	779.0	773.0	774.8
45°	729.7	717.1	709.7	703.2	696.6
47.5°	657.1	649.2	645.5	637.1	629.6
50°	586.4	583.6	574.7	567.7	552.4
52.5°	521.7	519.3	505.4	493.7	474.2
55°	465.4	456.5	433.7	422.5	417.0
57.5°	408.1	393.7	366.2	364.8	368.6
60°	353.2	335.5	302.5	309.9	324.4
62.5°	303.4	276.9	245.2	262.9	280.1
65°	257.8	229.0	198.2	221.5	242.5
67.5°	220.1	191.3	159.6	190.8	215.0
70°	190.3	161.0	131.2	167.1	189.9
72.5°	165.7	139.1	114.5	148.4	172.2
75°	145.2	121.5	107.0	132.2	152.6
77.5°	124.7	105.6	102.4	117.7	130.3
80°	101.4	92.6	93.5	103.3	108.0
82.5°	75.9	76.3	78.6	86.6	84.7
85°	53.1	57.2	55.8	64.2	60.0
87.5°	29.3	32.1	30.2	36.8	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)