

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: P293792

Luminaire Tested: **24GR-LD5-30-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293792
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-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2596.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

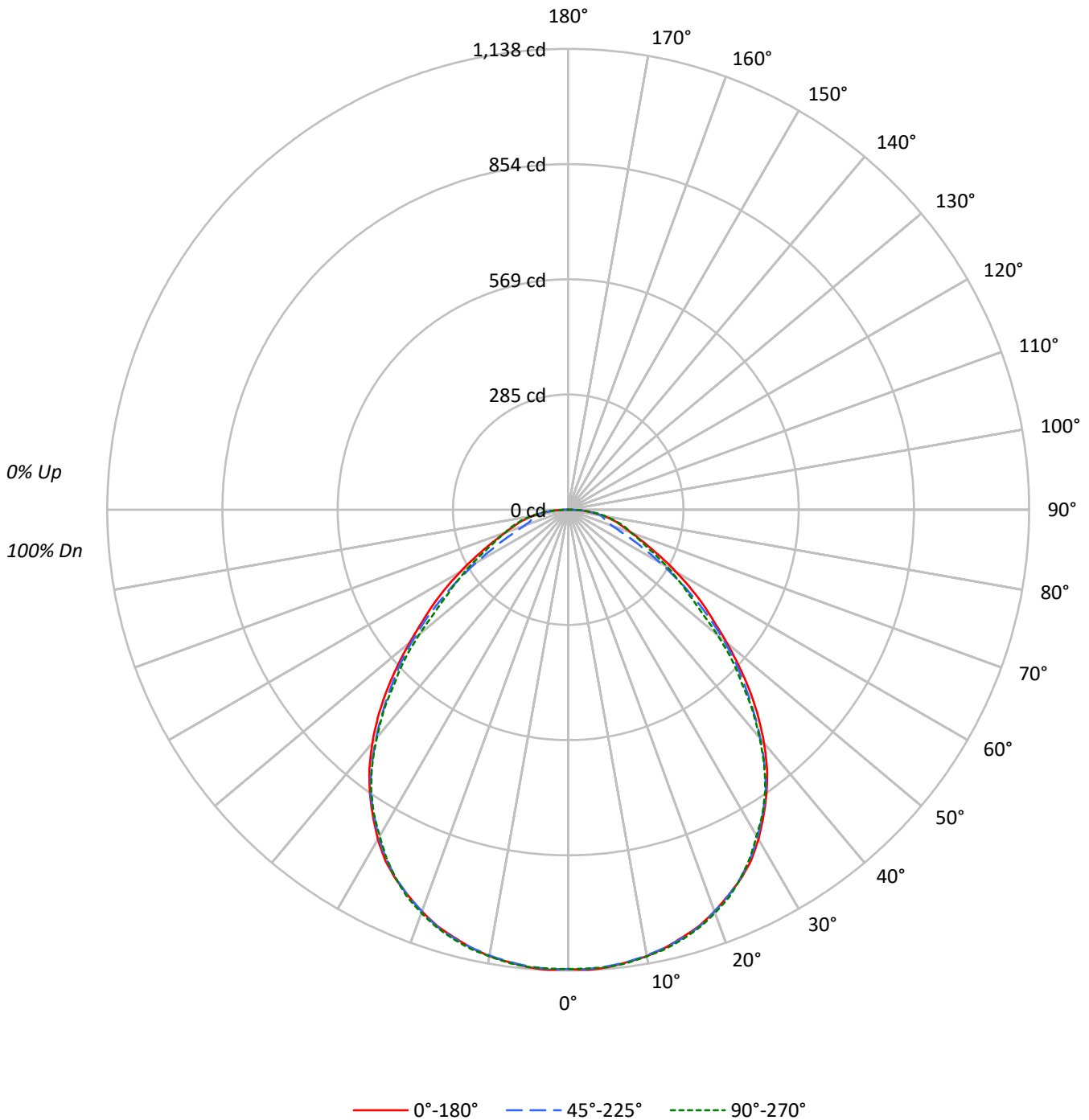
Input Watts (W): 20.374905
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1526	1526	1526
5°	1532	1528	1531
10°	1529	1527	1530
15°	1522	1525	1529
20°	1512	1512	1517
25°	1495	1492	1493
30°	1460	1452	1445
35°	1402	1398	1393
40°	1321	1297	1291
45°	1208	1175	1154
50°	1068	1047	1006
55°	950	885	851
60°	827	708	760
65°	714	549	672
70°	651	449	650
75°	657	484	690
80°	684	631	728
85°	713	750	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	4.1
10°-20°	308.6	11.9
20°-30°	461.9	17.8
30°-40°	527.9	20.3
40°-50°	477.2	18.4
50°-60°	343.3	13.2
60°-70°	199.0	7.7
70°-80°	118.1	4.5
80°-90°	52.3	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°	878.2	33.8
0°-40°	1406.0	54.2
0°-60°	2226.6	85.8
0°-90°	2596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1134	1132	1132	1130	1134	108
15°	1093	1095	1095	1094	1098	308
25°	1007	1006	1005	1003	1006	463
35°	854	850	851	841	848	532
45°	635	624	618	612	606	488
55°	405	397	377	368	363	362
65°	224	199	172	193	211	227
75°	126	106	93	115	133	134
85°	46	50	49	56	52	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.4	1134.4	1134.4	1134.4	1134.4
2.5°	1137.6	1133.6	1135.6	1134.4	1134.0
5°	1134.0	1132.3	1131.5	1129.9	1133.6
7.5°	1126.7	1125.5	1125.9	1126.3	1128.7
10°	1119.4	1117.4	1117.8	1118.6	1119.8
12.5°	1108.0	1106.8	1107.2	1108.0	1110.9
15°	1092.6	1094.7	1094.7	1093.5	1097.5
17.5°	1077.3	1076.9	1078.9	1075.2	1080.9
20°	1055.8	1056.2	1055.8	1056.2	1059.8
22.5°	1031.5	1033.5	1032.3	1032.3	1036.4
25°	1006.8	1005.6	1004.8	1002.7	1005.6
27.5°	977.2	974.8	972.8	968.7	970.7
30°	939.6	940.0	934.7	931.1	930.2
32.5°	897.4	897.4	892.6	889.8	892.2
35°	853.7	849.7	851.3	840.7	848.0
37.5°	806.3	799.8	796.2	792.6	795.0
40°	752.1	743.6	738.3	731.0	735.0
42.5°	695.0	684.4	677.9	672.7	674.3
45°	635.0	624.1	617.6	611.9	606.3
47.5°	571.8	565.0	561.7	554.4	547.9
50°	510.3	507.9	500.2	494.1	480.7
52.5°	454.0	452.0	439.8	429.7	412.7
55°	405.0	397.3	377.4	367.7	362.9
57.5°	355.2	342.6	318.7	317.5	320.7
60°	307.4	292.0	263.2	269.7	282.3
62.5°	264.0	241.0	213.4	228.8	243.8
65°	224.4	199.3	172.5	192.8	211.0
67.5°	191.6	166.4	138.9	166.0	187.1
70°	165.6	140.1	114.2	145.4	165.2
72.5°	144.2	121.1	99.6	129.2	149.8
75°	126.4	105.7	93.1	115.0	132.8
77.5°	108.5	91.9	89.1	102.5	113.4
80°	88.3	80.6	81.4	89.9	94.0
82.5°	66.0	66.4	68.4	75.3	73.7
85°	46.2	49.8	48.6	55.9	52.2
87.5°	25.5	27.9	26.3	32.0	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)