

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: P293340

Luminaire Tested: **24GR-LD5-30-F125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-30-F125-UNV-L92765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2893.0 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

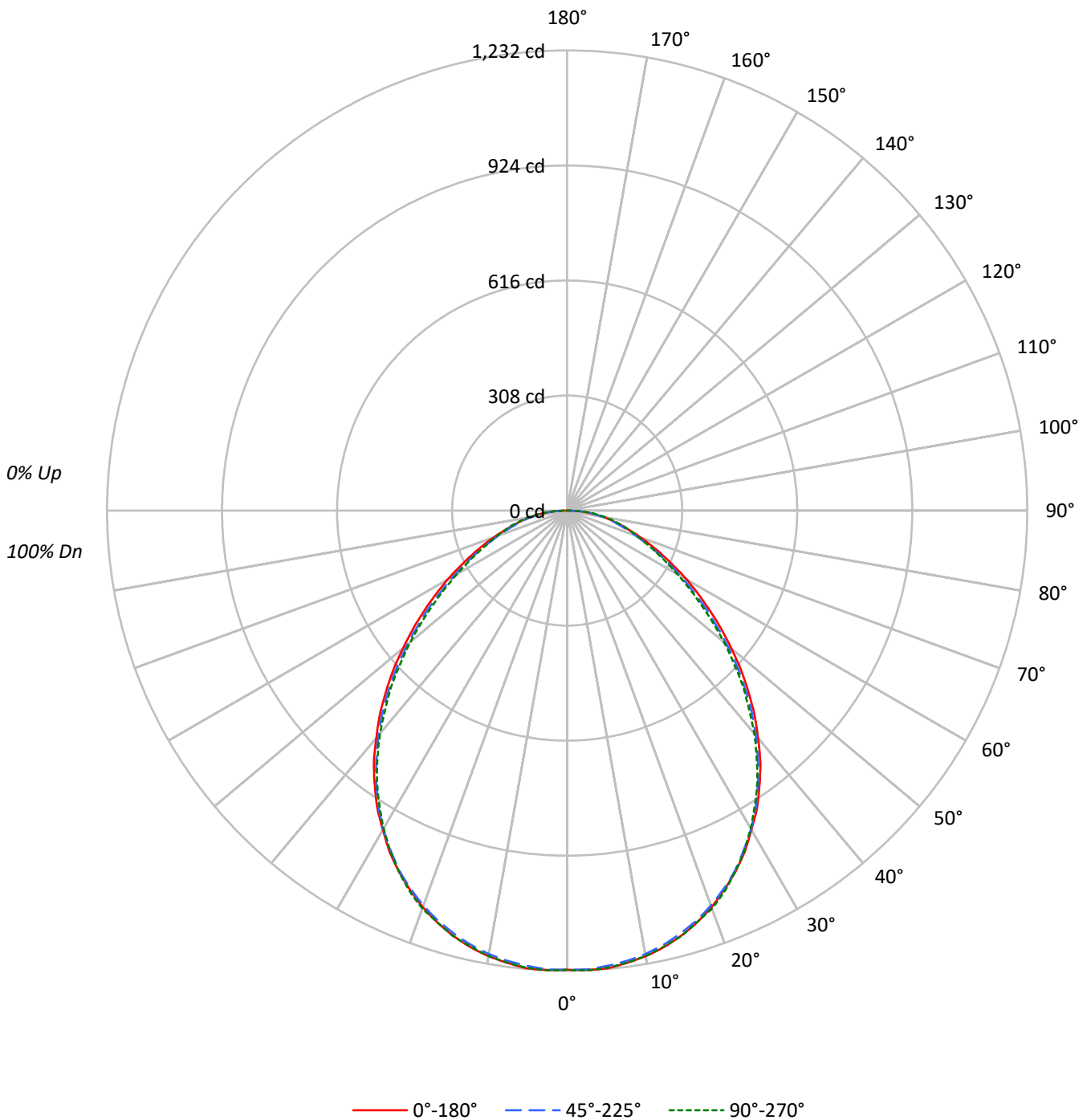
Input Watts (W): 20.925  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293340

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L92765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P293340

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L92765-W2A1-U-6500K

**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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1654	1654	1654
5°	1662	1653	1659
10°	1655	1647	1655
15°	1642	1633	1643
20°	1618	1612	1623
25°	1583	1579	1582
30°	1533	1530	1527
35°	1475	1464	1458
40°	1396	1380	1369
45°	1306	1282	1267
50°	1200	1168	1148
55°	1095	1054	1024
60°	994	940	916
65°	896	845	831
70°	820	767	788
75°	766	731	785
80°	760	746	820
85°	775	781	894



TEST NUMBER: P293340

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L92765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.4	4.0
10°-20°	330.8	11.4
20°-30°	488.7	16.9
30°-40°	555.6	19.2
40°-50°	518.9	17.9
50°-60°	403.5	13.9
60°-70°	267.8	9.3
70°-80°	155.0	5.4
80°-90°	56.3	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°	935.9	32.4
0°-40°	1491.6	51.6
0°-60°	2414.0	83.4
0°-90°	2893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2893.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1230	1224	1224	1226	1229	117
15°	1179	1173	1172	1172	1180	332
25°	1066	1062	1064	1061	1066	490
35°	898	894	891	885	888	561
45°	686	681	674	665	666	529
55°	467	460	450	438	436	418
65°	281	273	265	260	261	281
75°	147	144	141	147	151	158
85°	50	49	51	57	58	55
90°	0	0	0	0	0	



TEST NUMBER: P293340

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L92765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1231.3	1227.7	1229.5	1228.2	1232.2
5°	1230.4	1224.1	1223.6	1225.9	1228.6
7.5°	1221.8	1215.1	1216.4	1216.4	1220.9
10°	1211.4	1204.7	1205.6	1206.0	1211.0
12.5°	1197.4	1190.6	1191.1	1190.6	1195.6
15°	1178.9	1173.0	1172.5	1172.1	1179.8
17.5°	1156.3	1148.1	1150.8	1151.3	1155.4
20°	1130.0	1123.7	1125.5	1125.1	1133.7
22.5°	1098.8	1094.3	1095.7	1094.8	1102.9
25°	1066.3	1061.8	1063.6	1061.3	1065.8
27.5°	1029.7	1026.5	1024.7	1023.3	1026.5
30°	986.7	984.9	984.9	979.0	982.6
32.5°	946.0	940.1	940.1	937.9	935.6
35°	898.1	893.5	891.3	885.0	887.7
37.5°	850.1	839.7	838.8	833.9	833.9
40°	795.0	789.1	785.9	780.5	779.6
42.5°	742.5	736.6	731.2	722.2	720.4
45°	686.4	681.0	673.8	665.2	665.6
47.5°	630.8	623.1	616.3	605.9	604.6
50°	573.4	568.0	558.0	549.0	548.5
52.5°	519.6	511.0	501.9	491.1	491.1
55°	466.7	459.9	449.5	437.7	436.4
57.5°	416.0	409.7	397.9	389.3	387.1
60°	369.4	360.4	349.5	342.3	340.5
62.5°	322.9	314.7	306.6	299.4	298.9
65°	281.3	272.7	265.4	260.5	260.9
67.5°	243.7	236.5	228.4	227.0	227.5
70°	208.5	200.8	194.9	198.1	200.3
72.5°	175.0	170.9	166.9	171.4	174.5
75°	147.4	143.8	140.6	147.0	151.0
77.5°	122.1	119.4	118.9	124.4	128.0
80°	98.1	95.0	96.3	102.6	105.8
82.5°	74.6	72.4	72.8	80.5	82.8
85°	50.2	49.3	50.6	57.4	57.9
87.5°	26.7	26.7	27.6	31.7	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)