

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: P293288

Luminaire Tested: **24GR-LD5-30-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293288  
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-L93050-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2591.0 lumens  
Efficiency: N/A  
Efficacy: 127.2 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

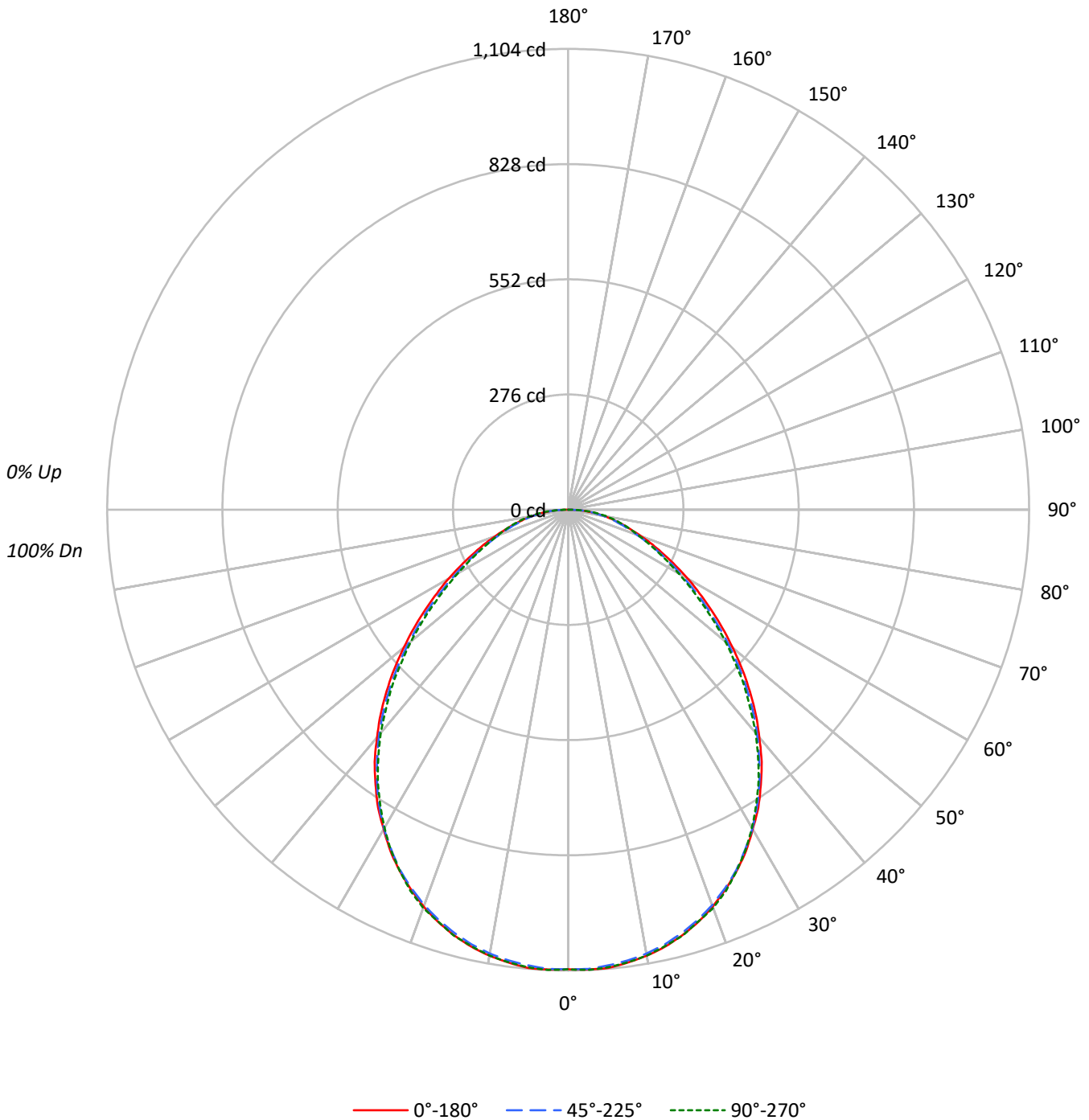
Input Watts (W): 20.374905  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	73	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°	1482	1482	1482
5°	1488	1480	1486
10°	1482	1475	1482
15°	1471	1463	1472
20°	1449	1443	1454
25°	1418	1414	1417
30°	1373	1370	1367
35°	1321	1311	1306
40°	1251	1236	1226
45°	1170	1148	1134
50°	1075	1046	1028
55°	981	944	917
60°	890	843	821
65°	802	757	744
70°	734	687	706
75°	686	655	703
80°	681	669	735
85°	695	701	800



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	4.0
10°-20°	296.3	11.4
20°-30°	437.7	16.9
30°-40°	497.6	19.2
40°-50°	464.7	17.9
50°-60°	361.4	13.9
60°-70°	239.8	9.3
70°-80°	138.8	5.4
80°-90°	50.5	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°	838.2	32.4
0°-40°	1335.8	51.6
0°-60°	2162.0	83.4
0°-90°	2591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2591.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1102	1096	1096	1098	1100	105
15°	1056	1051	1050	1050	1057	297
25°	955	951	952	950	955	439
35°	804	800	798	793	795	502
45°	615	610	603	596	596	474
55°	418	412	403	392	391	375
65°	252	244	238	233	234	252
75°	132	129	126	132	135	141
85°	45	44	45	51	52	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1101.2	1101.2	1101.2	1101.2	1101.2
2.5°	1102.8	1099.6	1101.2	1100.0	1103.6
5°	1102.0	1096.3	1095.9	1097.9	1100.4
7.5°	1094.3	1088.2	1089.4	1089.4	1093.5
10°	1085.0	1078.9	1079.7	1080.1	1084.6
12.5°	1072.4	1066.3	1066.8	1066.3	1070.8
15°	1055.8	1050.6	1050.1	1049.7	1056.6
17.5°	1035.6	1028.3	1030.7	1031.1	1034.8
20°	1012.1	1006.4	1008.0	1007.6	1015.3
22.5°	984.1	980.1	981.3	980.5	987.8
25°	955.0	950.9	952.5	950.5	954.6
27.5°	922.2	919.3	917.7	916.5	919.3
30°	883.7	882.1	882.1	876.8	880.0
32.5°	847.2	842.0	842.0	840.0	837.9
35°	804.3	800.3	798.2	792.6	795.0
37.5°	761.4	752.1	751.3	746.8	746.8
40°	712.0	706.7	703.9	699.0	698.2
42.5°	665.0	659.7	654.9	646.8	645.2
45°	614.8	609.9	603.4	595.7	596.1
47.5°	565.0	558.1	552.0	542.7	541.5
50°	513.5	508.7	499.8	491.7	491.3
52.5°	465.3	457.6	449.5	439.8	439.8
55°	418.0	411.9	402.6	392.0	390.8
57.5°	372.6	366.9	356.4	348.7	346.7
60°	330.9	322.8	313.1	306.6	305.0
62.5°	289.2	281.9	274.6	268.1	267.7
65°	251.9	244.2	237.7	233.3	233.7
67.5°	218.3	211.8	204.5	203.3	203.7
70°	186.7	179.8	174.6	177.4	179.4
72.5°	156.7	153.1	149.4	153.5	156.3
75°	132.0	128.8	126.0	131.6	135.3
77.5°	109.3	106.9	106.5	111.4	114.6
80°	87.9	85.0	86.3	91.9	94.8
82.5°	66.8	64.8	65.2	72.1	74.1
85°	45.0	44.1	45.4	51.4	51.8
87.5°	23.9	23.9	24.7	28.3	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)