

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: P293669

Luminaire Tested: **24GR-LD5-30-A125-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293669  
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-L83050-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3237.0 lumens  
Efficiency: N/A  
Efficacy: 154.0 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

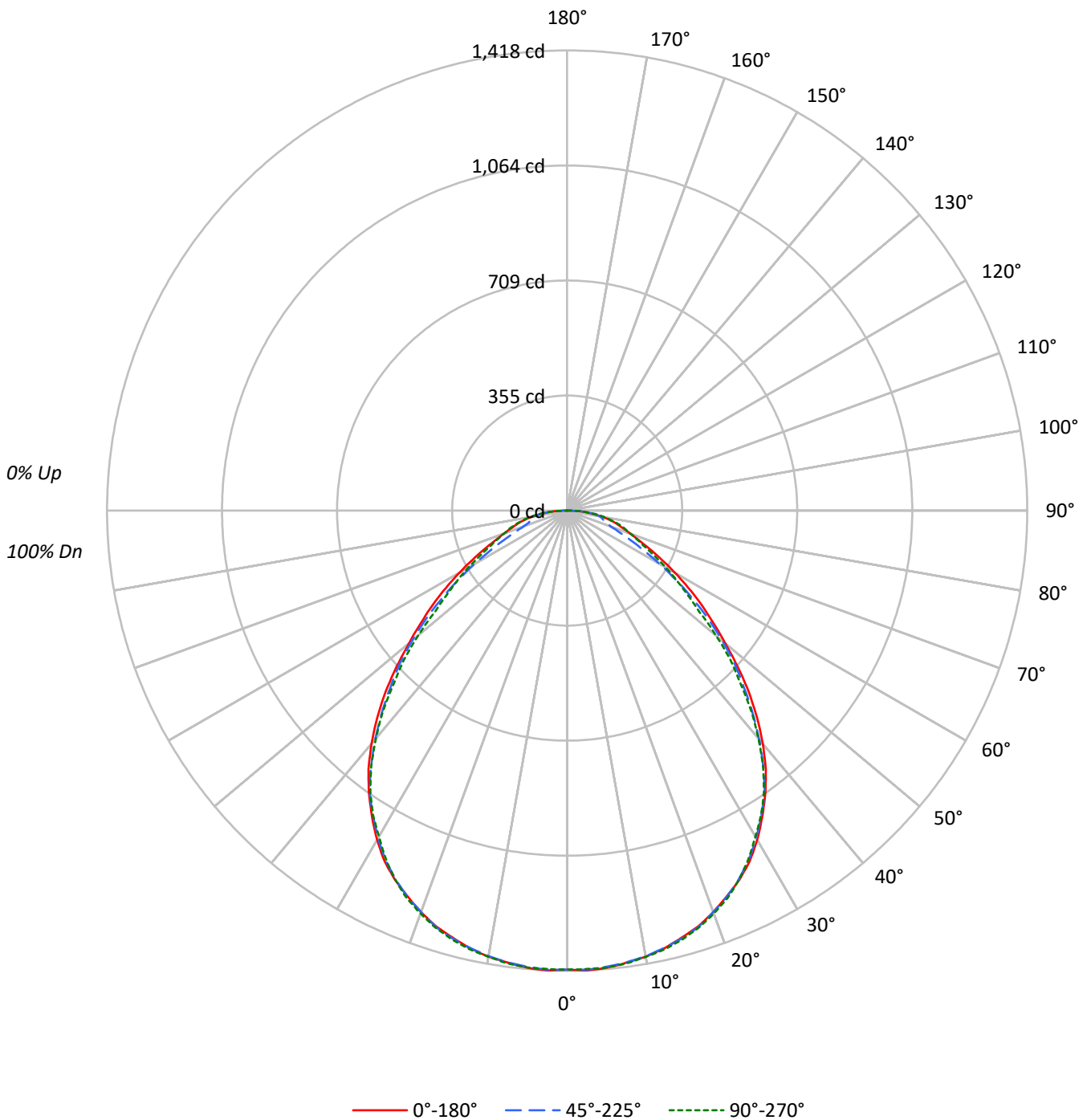
Input Watts (W): 21.018  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

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

	0°	45°	90°
0°	1903	1903	1903
5°	1910	1906	1909
10°	1907	1904	1908
15°	1898	1901	1906
20°	1885	1885	1892
25°	1864	1860	1862
30°	1820	1811	1802
35°	1748	1744	1737
40°	1647	1617	1610
45°	1507	1465	1439
50°	1332	1306	1255
55°	1185	1104	1061
60°	1031	883	947
65°	891	685	838
70°	812	560	810
75°	819	604	861
80°	853	786	908
85°	889	936	1005



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.2	4.1
10°-20°	384.8	11.9
20°-30°	576.0	17.8
30°-40°	658.2	20.3
40°-50°	595.1	18.4
50°-60°	428.1	13.2
60°-70°	248.2	7.7
70°-80°	147.2	4.5
80°-90°	65.2	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°	1095.0	33.8
0°-40°	1753.2	54.2
0°-60°	2776.4	85.8
0°-90°	3237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3237.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1414	1412	1411	1409	1413	134
15°	1362	1365	1365	1364	1368	385
25°	1255	1254	1253	1250	1254	577
35°	1064	1060	1062	1048	1057	664
45°	792	778	770	763	756	608
55°	505	495	471	458	452	452
65°	280	248	215	240	263	282
75°	158	132	116	143	166	167
85°	58	62	61	70	65	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1414.5	1414.5	1414.5	1414.5	1414.5
2.5°	1418.5	1413.4	1416.0	1414.5	1414.0
5°	1414.0	1411.9	1410.9	1408.9	1413.4
7.5°	1404.9	1403.3	1403.9	1404.4	1407.4
10°	1395.8	1393.2	1393.8	1394.8	1396.3
12.5°	1381.6	1380.1	1380.6	1381.6	1385.2
15°	1362.4	1365.0	1365.0	1363.5	1368.5
17.5°	1343.3	1342.7	1345.3	1340.7	1347.8
20°	1316.5	1317.0	1316.5	1317.0	1321.5
22.5°	1286.2	1288.7	1287.2	1287.2	1292.3
25°	1255.4	1253.9	1252.9	1250.3	1253.9
27.5°	1218.5	1215.5	1213.0	1207.9	1210.4
30°	1171.6	1172.1	1165.5	1161.0	1159.9
32.5°	1119.0	1119.0	1113.0	1109.4	1112.5
35°	1064.5	1059.5	1061.5	1048.3	1057.4
37.5°	1005.4	997.3	992.8	988.3	991.3
40°	937.8	927.1	920.6	911.5	916.5
42.5°	866.6	853.4	845.3	838.8	840.8
45°	791.8	778.2	770.1	763.0	756.0
47.5°	713.0	704.5	700.4	691.3	683.2
50°	636.3	633.2	623.7	616.1	599.4
52.5°	566.1	563.6	548.4	535.8	514.6
55°	505.0	495.4	470.6	458.5	452.5
57.5°	442.9	427.2	397.4	395.9	399.9
60°	383.3	364.1	328.2	336.3	352.0
62.5°	329.2	300.5	266.1	285.3	304.0
65°	279.8	248.5	215.1	240.4	263.1
67.5°	238.9	207.5	173.2	207.0	233.3
70°	206.5	174.7	142.4	181.3	206.0
72.5°	179.8	151.0	124.2	161.1	186.8
75°	157.6	131.8	116.1	143.4	165.6
77.5°	135.3	114.6	111.1	127.8	141.4
80°	110.1	100.5	101.5	112.1	117.2
82.5°	82.3	82.8	85.3	93.9	91.9
85°	57.6	62.1	60.6	69.7	65.1
87.5°	31.8	34.8	32.8	39.9	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)