

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: P293667

Luminaire Tested: **24GR-LD5-30-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293667
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3206.0 lumens
Efficiency: N/A
Efficacy: 156.7 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

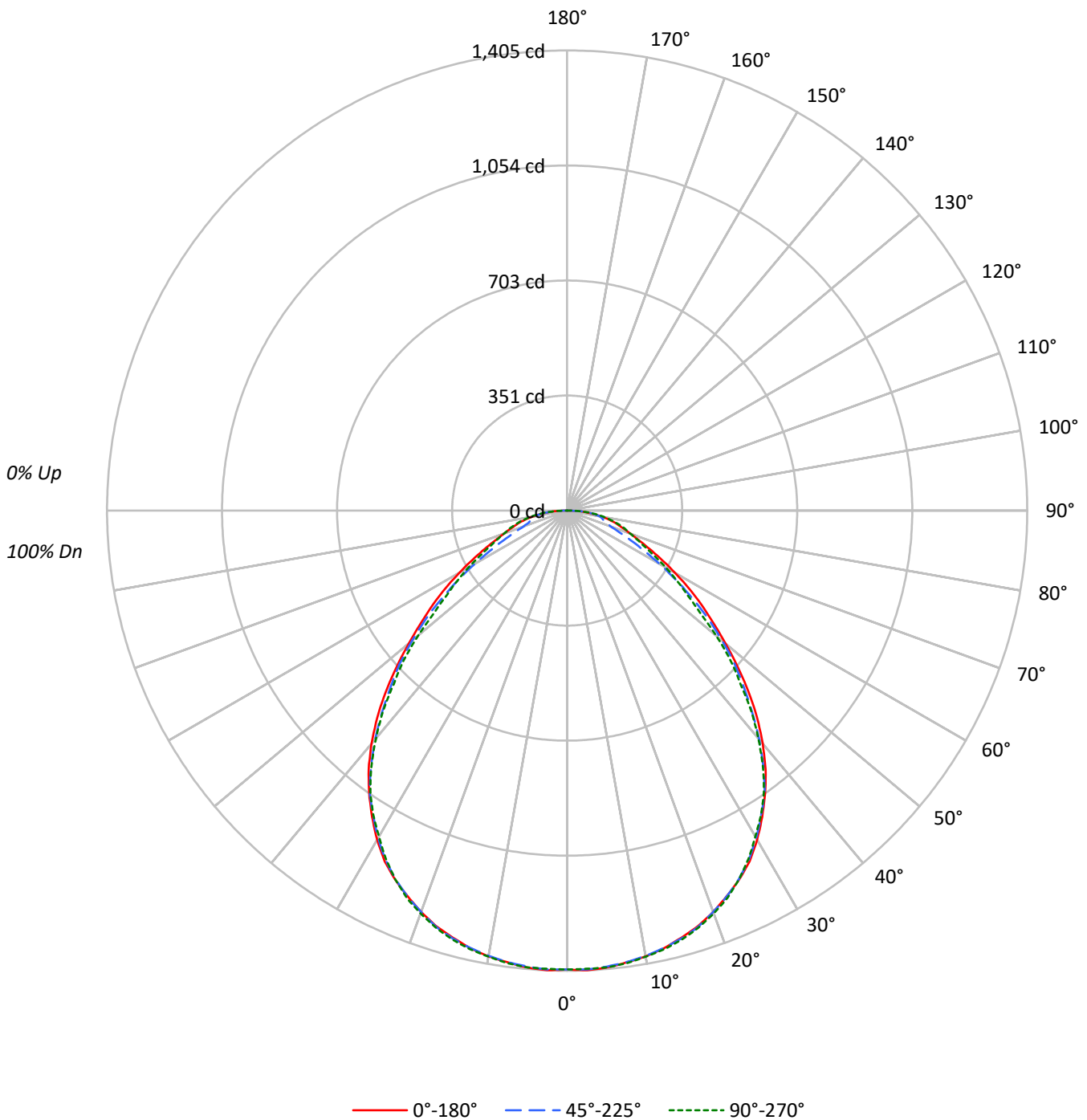
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1885	1885	1885
5°	1891	1887	1891
10°	1889	1886	1889
15°	1880	1883	1888
20°	1867	1867	1874
25°	1846	1842	1844
30°	1803	1793	1785
35°	1732	1727	1720
40°	1631	1601	1594
45°	1492	1451	1425
50°	1319	1293	1243
55°	1173	1093	1051
60°	1021	875	938
65°	882	678	830
70°	805	555	803
75°	811	598	853
80°	845	779	899
85°	880	926	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	4.1
10°-20°	381.1	11.9
20°-30°	570.5	17.8
30°-40°	651.9	20.3
40°-50°	589.4	18.4
50°-60°	424.0	13.2
60°-70°	245.8	7.7
70°-80°	145.8	4.5
80°-90°	64.6	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°	1084.5	33.8
0°-40°	1736.4	54.2
0°-60°	2749.8	85.8
0°-90°	3206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1400	1398	1397	1395	1400	133
15°	1349	1352	1352	1350	1355	381
25°	1243	1242	1241	1238	1242	572
35°	1054	1049	1051	1038	1047	657
45°	784	771	763	756	749	602
55°	500	491	466	454	448	447
65°	277	246	213	238	261	280
75°	156	130	115	142	164	165
85°	57	62	60	69	64	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.9	1400.9	1400.9	1400.9	1400.9
2.5°	1404.9	1399.9	1402.4	1400.9	1400.4
5°	1400.4	1398.4	1397.4	1395.4	1399.9
7.5°	1391.4	1389.9	1390.4	1390.9	1393.9
10°	1382.4	1379.9	1380.4	1381.4	1382.9
12.5°	1368.4	1366.9	1367.4	1368.4	1371.9
15°	1349.4	1351.9	1351.9	1350.4	1355.4
17.5°	1330.4	1329.9	1332.4	1327.9	1334.9
20°	1303.9	1304.4	1303.9	1304.4	1308.9
22.5°	1273.9	1276.4	1274.9	1274.9	1279.9
25°	1243.4	1241.9	1240.9	1238.4	1241.9
27.5°	1206.9	1203.9	1201.4	1196.4	1198.9
30°	1160.3	1160.8	1154.3	1149.8	1148.8
32.5°	1108.3	1108.3	1102.3	1098.8	1101.8
35°	1054.3	1049.3	1051.3	1038.3	1047.3
37.5°	995.8	987.8	983.3	978.8	981.8
40°	928.8	918.3	911.8	902.8	907.8
42.5°	858.3	845.2	837.2	830.7	832.7
45°	784.2	770.7	762.7	755.7	748.7
47.5°	706.2	697.7	693.7	684.7	676.7
50°	630.2	627.2	617.7	610.2	593.7
52.5°	560.7	558.2	543.2	530.7	509.6
55°	500.1	490.6	466.1	454.1	448.1
57.5°	438.6	423.1	393.6	392.1	396.1
60°	379.6	360.6	325.1	333.1	348.6
62.5°	326.1	297.6	263.6	282.6	301.1
65°	277.1	246.1	213.1	238.1	260.6
67.5°	236.6	205.6	171.6	205.1	231.1
70°	204.6	173.1	141.0	179.6	204.1
72.5°	178.1	149.5	123.0	159.5	185.1
75°	156.0	130.5	115.0	142.0	164.0
77.5°	134.0	113.5	110.0	126.5	140.0
80°	109.0	99.5	100.5	111.0	116.0
82.5°	81.5	82.0	84.5	93.0	91.0
85°	57.0	61.5	60.0	69.0	64.5
87.5°	31.5	34.5	32.5	39.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)