

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: P293843

Luminaire Tested: **24GR-LD5-30-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293843
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-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2879.0 lumens
Efficiency: N/A
Efficacy: 139.4 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

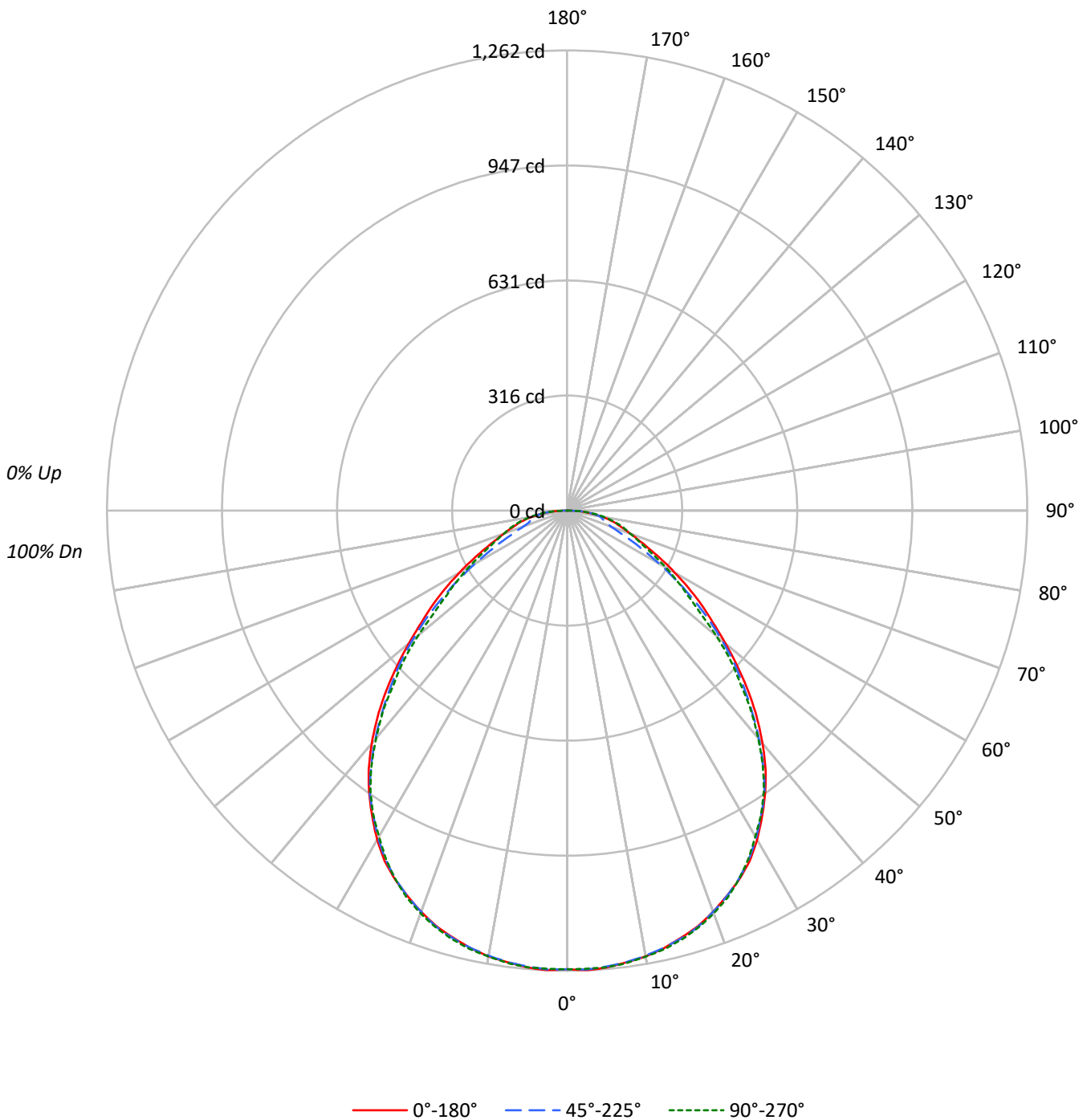
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	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°	1693	1693	1693
5°	1699	1695	1698
10°	1696	1694	1697
15°	1688	1691	1696
20°	1677	1677	1683
25°	1658	1654	1656
30°	1619	1611	1603
35°	1555	1551	1545
40°	1465	1438	1432
45°	1340	1303	1279
50°	1185	1161	1116
55°	1053	982	944
60°	917	785	842
65°	792	609	745
70°	723	498	721
75°	728	537	766
80°	759	700	807
85°	790	832	894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	4.1
10°-20°	342.2	11.9
20°-30°	512.3	17.8
30°-40°	585.4	20.3
40°-50°	529.2	18.4
50°-60°	380.8	13.2
60°-70°	220.7	7.7
70°-80°	131.0	4.5
80°-90°	58.0	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°	973.9	33.8
0°-40°	1559.3	54.2
0°-60°	2469.3	85.8
0°-90°	2879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1258	1256	1255	1253	1257	119
15°	1212	1214	1214	1213	1217	342
25°	1116	1115	1114	1112	1115	513
35°	947	942	944	932	940	590
45°	704	692	685	679	672	541
55°	449	441	419	408	402	402
65°	249	221	191	214	234	251
75°	140	117	103	128	147	148
85°	51	55	54	62	58	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.0	1258.0	1258.0	1258.0	1258.0
2.5°	1261.6	1257.1	1259.4	1258.0	1257.6
5°	1257.6	1255.8	1254.9	1253.1	1257.1
7.5°	1249.5	1248.1	1248.6	1249.0	1251.7
10°	1241.4	1239.2	1239.6	1240.5	1241.9
12.5°	1228.8	1227.5	1227.9	1228.8	1232.0
15°	1211.8	1214.0	1214.0	1212.7	1217.2
17.5°	1194.7	1194.2	1196.5	1192.4	1198.7
20°	1170.9	1171.3	1170.9	1171.3	1175.4
22.5°	1143.9	1146.2	1144.8	1144.8	1149.3
25°	1116.5	1115.2	1114.3	1112.1	1115.2
27.5°	1083.8	1081.1	1078.8	1074.3	1076.6
30°	1042.0	1042.4	1036.6	1032.6	1031.7
32.5°	995.3	995.3	989.9	986.7	989.4
35°	946.8	942.3	944.1	932.4	940.5
37.5°	894.2	887.0	883.0	879.0	881.6
40°	834.0	824.6	818.8	810.7	815.2
42.5°	770.7	759.0	751.8	746.0	747.8
45°	704.2	692.1	684.9	678.6	672.4
47.5°	634.2	626.5	622.9	614.9	607.7
50°	565.9	563.2	554.7	547.9	533.1
52.5°	503.5	501.2	487.8	476.5	457.7
55°	449.1	440.6	418.6	407.8	402.4
57.5°	393.9	380.0	353.5	352.1	355.7
60°	340.9	323.8	291.9	299.1	313.0
62.5°	292.8	267.2	236.7	253.8	270.4
65°	248.8	221.0	191.3	213.8	234.0
67.5°	212.4	184.6	154.1	184.1	207.5
70°	183.7	155.4	126.7	161.2	183.2
72.5°	159.9	134.3	110.5	143.3	166.2
75°	140.1	117.2	103.3	127.6	147.3
77.5°	120.4	102.0	98.8	113.6	125.8
80°	97.9	89.4	90.3	99.7	104.2
82.5°	73.2	73.7	75.9	83.5	81.7
85°	51.2	55.2	53.9	62.0	57.9
87.5°	28.3	31.0	29.2	35.5	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)