

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: P293665

Luminaire Tested: **24GR-LD5-30-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293665  
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-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2885.0 lumens  
Efficiency: N/A  
Efficacy: 144.3 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

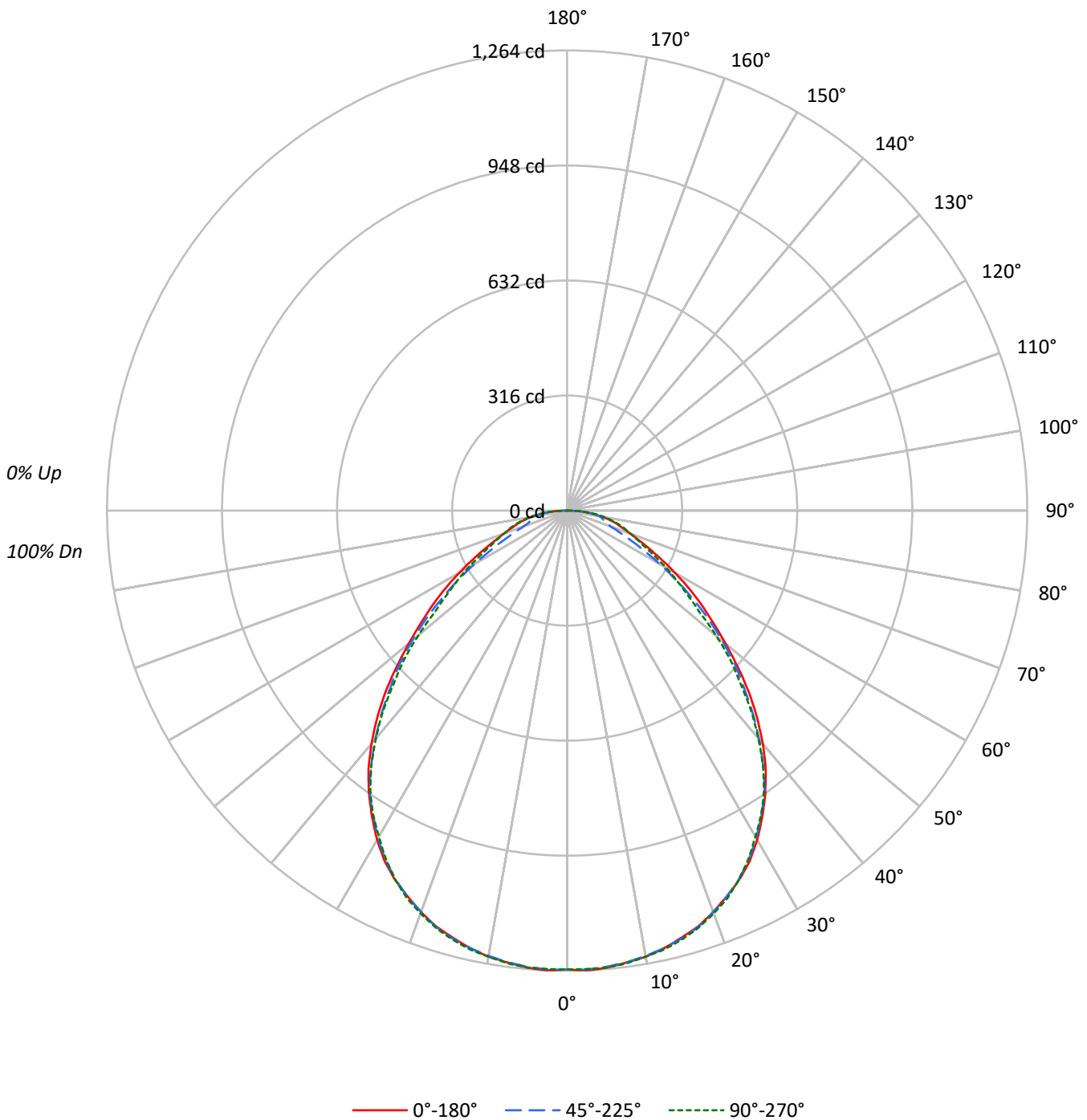
Input Watts (W): 19.995  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1696	1696	1696
5°	1702	1698	1701
10°	1700	1697	1700
15°	1691	1695	1699
20°	1680	1680	1686
25°	1661	1658	1659
30°	1622	1614	1606
35°	1558	1554	1548
40°	1468	1441	1435
45°	1343	1306	1282
50°	1187	1163	1118
55°	1056	984	946
60°	919	787	844
65°	794	610	747
70°	724	499	722
75°	730	538	767
80°	760	701	809
85°	792	834	897



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.6	4.1
10°-20°	343.0	11.9
20°-30°	513.4	17.8
30°-40°	586.6	20.3
40°-50°	530.4	18.4
50°-60°	381.6	13.2
60°-70°	221.2	7.7
70°-80°	131.2	4.5
80°-90°	58.1	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°	975.9	33.8
0°-40°	1562.5	54.2
0°-60°	2474.5	85.8
0°-90°	2885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2885.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1260	1258	1258	1256	1260	120
15°	1214	1216	1216	1215	1220	343
25°	1119	1118	1117	1114	1118	514
35°	949	944	946	934	942	591
45°	706	694	686	680	674	542
55°	450	442	420	409	403	403
65°	249	221	192	214	234	252
75°	140	118	104	128	148	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°	1260.6	1260.6	1260.6	1260.6	1260.6
2.5°	1264.2	1259.7	1262.0	1260.6	1260.2
5°	1260.2	1258.4	1257.5	1255.7	1259.7
7.5°	1252.1	1250.7	1251.2	1251.6	1254.3
10°	1244.0	1241.7	1242.2	1243.1	1244.4
12.5°	1231.4	1230.0	1230.5	1231.4	1234.5
15°	1214.3	1216.5	1216.5	1215.2	1219.7
17.5°	1197.2	1196.7	1199.0	1194.9	1201.2
20°	1173.3	1173.8	1173.3	1173.8	1177.8
22.5°	1146.3	1148.6	1147.2	1147.2	1151.7
25°	1118.9	1117.5	1116.6	1114.4	1117.5
27.5°	1086.0	1083.3	1081.1	1076.6	1078.8
30°	1044.2	1044.6	1038.8	1034.7	1033.8
32.5°	997.4	997.4	992.0	988.8	991.5
35°	948.7	944.2	946.0	934.3	942.4
37.5°	896.1	888.9	884.8	880.8	883.5
40°	835.8	826.3	820.5	812.4	816.9
42.5°	772.3	760.6	753.4	747.6	749.4
45°	705.7	693.6	686.4	680.1	673.8
47.5°	635.5	627.8	624.2	616.1	608.9
50°	567.1	564.4	555.8	549.1	534.2
52.5°	504.5	502.3	488.8	477.5	458.6
55°	450.1	441.5	419.5	408.7	403.3
57.5°	394.7	380.8	354.2	352.9	356.5
60°	341.6	324.5	292.5	299.7	313.7
62.5°	293.4	267.8	237.2	254.3	270.9
65°	249.3	221.4	191.7	214.2	234.5
67.5°	212.9	185.0	154.4	184.5	207.9
70°	184.1	155.7	126.9	161.6	183.6
72.5°	160.2	134.6	110.7	143.6	166.5
75°	140.4	117.5	103.5	127.8	147.6
77.5°	120.6	102.2	99.0	113.9	126.0
80°	98.1	89.6	90.5	99.9	104.4
82.5°	73.4	73.8	76.1	83.7	81.9
85°	51.3	55.4	54.0	62.1	58.1
87.5°	28.4	31.1	29.3	35.6	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)