

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: P293209

Luminaire Tested: **24GR-LD5-30-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293209  
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-L82765-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3042.0 lumens  
Efficiency: N/A  
Efficacy: 150.0 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

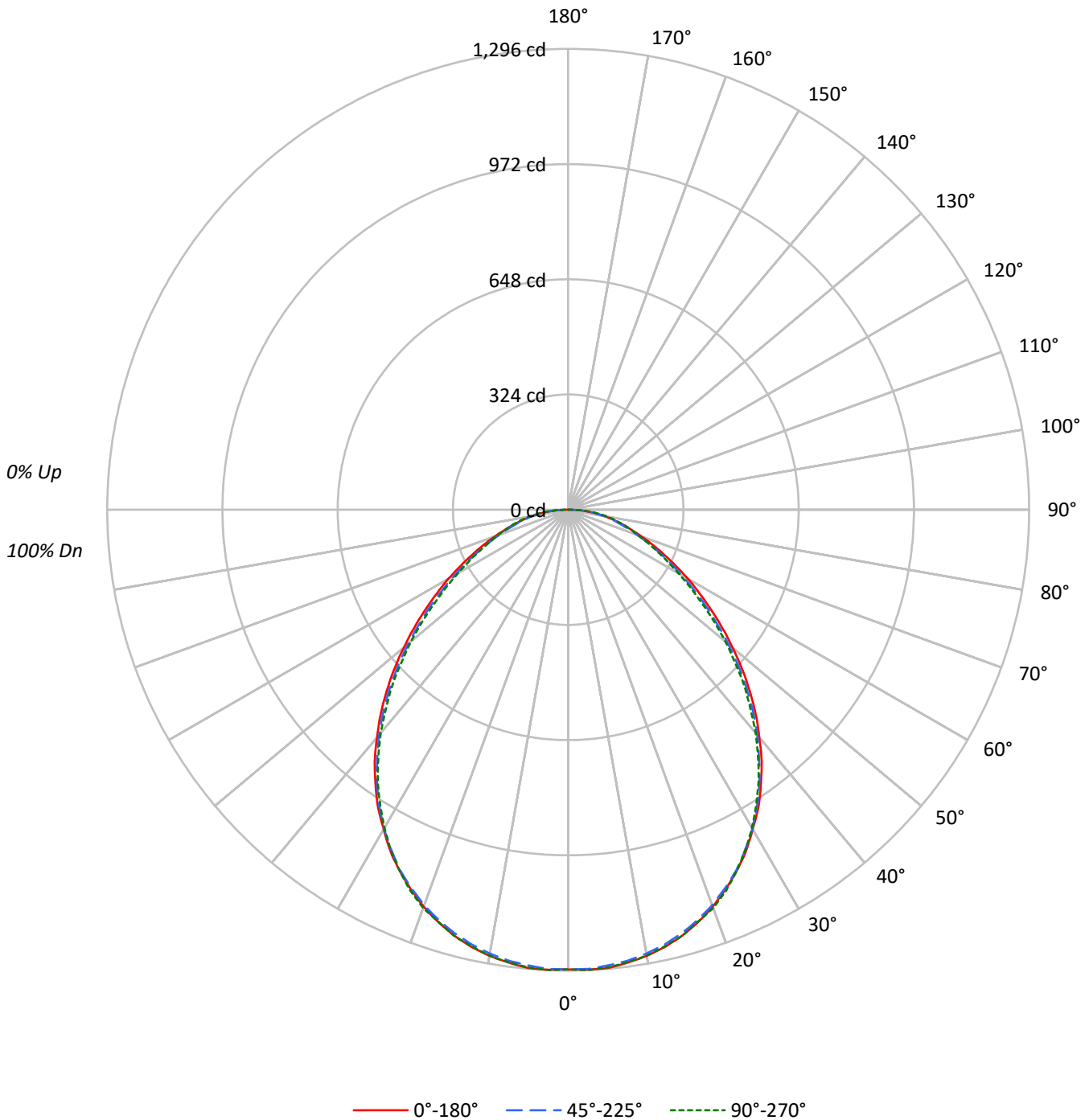
Input Watts (W): 20.274  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	72	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°	1739	1739	1739
5°	1747	1738	1745
10°	1740	1732	1740
15°	1727	1717	1728
20°	1701	1695	1707
25°	1665	1660	1664
30°	1612	1609	1605
35°	1551	1539	1533
40°	1468	1451	1440
45°	1373	1348	1332
50°	1262	1228	1207
55°	1151	1109	1076
60°	1045	989	963
65°	942	889	874
70°	862	806	828
75°	806	769	826
80°	800	785	862
85°	815	823	940



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.4	4.0
10°-20°	347.9	11.4
20°-30°	513.9	16.9
30°-40°	584.3	19.2
40°-50°	545.6	17.9
50°-60°	424.3	13.9
60°-70°	281.5	9.3
70°-80°	162.9	5.4
80°-90°	59.3	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°	984.1	32.4
0°-40°	1568.4	51.6
0°-60°	2538.3	83.4
0°-90°	3042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3042.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1293	1293	1293	1293	1293	
5°	1294	1287	1287	1289	1292	123
15°	1240	1233	1233	1232	1240	349
25°	1121	1116	1118	1116	1121	515
35°	944	940	937	930	933	590
45°	722	716	708	699	700	556
55°	491	484	473	460	459	440
65°	296	287	279	274	274	296
75°	155	151	148	154	159	166
85°	53	52	53	60	61	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1292.8	1292.8	1292.8	1292.8	<i>1292.8</i>
2.5°	<i>1294.8</i>	<i>1290.9</i>	<i>1292.8</i>	<i>1291.4</i>	<i>1295.7</i>
5°	1293.8	1287.1	1286.7	1289.0	<i>1291.9</i>
7.5°	1284.8	1277.6	1279.1	1279.1	<i>1283.8</i>
10°	1273.8	1266.7	1267.6	1268.1	<i>1273.4</i>
12.5°	1259.1	1252.0	1252.4	1252.0	<i>1257.2</i>
15°	1239.6	1233.4	1232.9	1232.5	<i>1240.5</i>
17.5°	1215.8	1207.3	1210.1	1210.6	<i>1214.9</i>
20°	1188.2	1181.6	1183.5	1183.0	<i>1192.0</i>
22.5°	1155.4	1150.7	1152.1	1151.2	<i>1159.7</i>
25°	1121.2	1116.4	1118.3	1116.0	<i>1120.7</i>
27.5°	1082.7	1079.4	1077.5	1076.0	<i>1079.4</i>
30°	1037.5	1035.6	1035.6	1029.4	<i>1033.2</i>
32.5°	994.7	988.5	988.5	986.2	<i>983.8</i>
35°	944.3	939.6	937.2	930.5	<i>933.4</i>
37.5°	893.9	883.0	882.0	876.8	<i>876.8</i>
40°	835.9	829.7	826.4	820.7	<i>819.7</i>
42.5°	780.7	774.6	768.9	759.4	<i>757.5</i>
45°	721.8	716.1	708.5	699.4	<i>699.9</i>
47.5°	663.3	655.2	648.1	637.2	<i>635.7</i>
50°	602.9	597.2	586.8	577.2	<i>576.8</i>
52.5°	546.3	537.3	527.8	516.4	<i>516.4</i>
55°	490.7	483.6	472.6	460.3	<i>458.8</i>
57.5°	437.4	430.8	418.4	409.4	<i>407.0</i>
60°	388.5	379.0	367.6	359.9	<i>358.0</i>
62.5°	339.5	330.9	322.4	314.8	<i>314.3</i>
65°	295.8	286.7	279.1	273.9	<i>274.4</i>
67.5°	256.3	248.7	240.1	238.7	<i>239.2</i>
70°	219.2	211.1	204.9	208.3	<i>210.6</i>
72.5°	184.0	179.7	175.5	180.2	<i>183.5</i>
75°	155.0	151.2	147.9	154.5	<i>158.8</i>
77.5°	128.4	125.5	125.1	130.8	<i>134.6</i>
80°	103.2	99.9	101.3	107.9	<i>111.3</i>
82.5°	78.5	76.1	76.6	84.6	<i>87.0</i>
85°	52.8	51.8	53.3	60.4	<i>60.9</i>
87.5°	28.1	28.1	29.0	33.3	<i>31.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)