

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: P292960

Luminaire Tested: **24GR-LD5-30-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-30-F1-UNV-L82765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F1 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3169.0 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

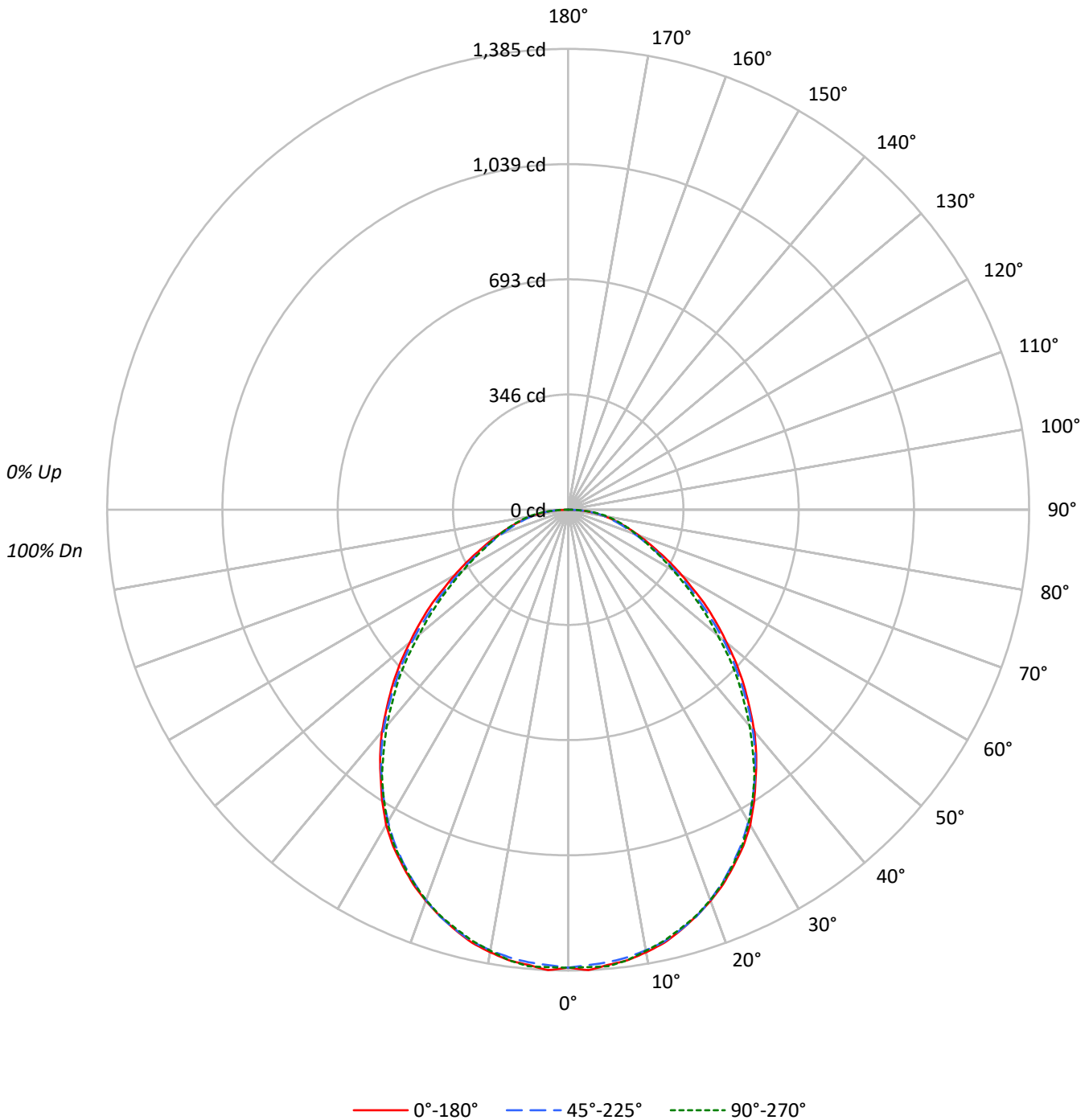
Input Watts (W): 20.553  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

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

	0°	45°	90°
0°	1852	1852	1852
5°	1855	1844	1860
10°	1845	1837	1839
15°	1822	1820	1815
20°	1791	1788	1788
25°	1750	1740	1744
30°	1699	1682	1687
35°	1614	1606	1602
40°	1528	1514	1488
45°	1420	1396	1368
50°	1301	1272	1225
55°	1188	1135	1096
60°	1059	1008	981
65°	953	903	891
70°	884	830	864
75°	846	809	876
80°	846	846	937
85°	878	888	990



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.0	4.1
10°-20°	367.9	11.6
20°-30°	539.9	17.0
30°-40°	610.4	19.3
40°-50°	564.2	17.8
50°-60°	434.7	13.7
60°-70°	287.8	9.1
70°-80°	171.3	5.4
80°-90°	62.8	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°	1037.8	32.7
0°-40°	1648.2	52.0
0°-60°	2647.1	83.5
0°-90°	3169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1373	1373	1365	1366	1377	131
15°	1308	1305	1307	1306	1303	369
25°	1178	1175	1172	1171	1175	543
35°	982	981	978	973	975	615
45°	746	741	733	720	719	575
55°	507	496	484	471	467	452
65°	299	295	284	281	280	300
75°	163	159	156	163	169	174
85°	57	54	58	63	64	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1376.5	1376.5	1376.5	1376.5	1376.5
2.5°	1385.0	1377.8	1370.0	1370.0	1375.9
5°	1373.3	1373.3	1365.4	1366.1	1377.2
7.5°	1366.1	1362.2	1356.9	1356.9	1365.4
10°	1350.4	1347.1	1344.5	1343.2	1345.8
12.5°	1333.4	1328.2	1330.1	1328.2	1327.5
15°	1307.9	1305.3	1306.6	1305.9	1303.3
17.5°	1280.5	1279.1	1281.8	1277.2	1279.1
20°	1251.0	1247.1	1248.4	1245.8	1248.4
22.5°	1217.7	1215.1	1211.8	1208.6	1213.8
25°	1178.5	1175.2	1172.0	1170.6	1174.6
27.5°	1139.3	1134.0	1129.5	1128.2	1134.0
30°	1093.5	1087.6	1082.4	1081.1	1085.7
32.5°	1039.3	1038.0	1031.4	1028.8	1030.8
35°	982.4	981.1	977.8	973.3	975.2
37.5°	928.2	927.5	922.9	915.1	909.8
40°	870.0	865.4	862.1	851.0	847.1
42.5°	805.9	804.6	798.7	786.3	781.7
45°	746.4	741.2	733.4	720.3	719.0
47.5°	685.0	677.8	670.6	654.3	653.6
50°	621.6	616.4	607.9	591.5	585.0
52.5°	562.8	555.6	543.8	528.1	524.9
55°	506.6	496.1	483.7	470.6	467.3
57.5°	446.4	441.9	426.8	416.4	412.4
60°	393.5	389.6	374.5	364.7	364.7
62.5°	345.8	339.9	326.8	320.3	320.3
65°	299.4	294.8	283.7	281.1	279.8
67.5°	259.5	253.6	245.8	245.1	248.4
70°	224.8	217.7	211.1	217.7	219.6
72.5°	192.2	187.6	181.7	190.2	194.1
75°	162.8	158.8	155.6	162.8	168.6
77.5°	136.0	132.0	132.0	139.9	145.1
80°	109.2	106.5	109.2	115.7	120.9
82.5°	83.7	81.7	85.0	91.5	94.8
85°	56.9	53.6	57.5	63.4	64.1
87.5°	26.8	26.1	28.8	32.7	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)