

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: P293214

Luminaire Tested: **24GR-LD5-30-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293214  
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-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3186.0 lumens  
Efficiency: N/A  
Efficacy: 152.3 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

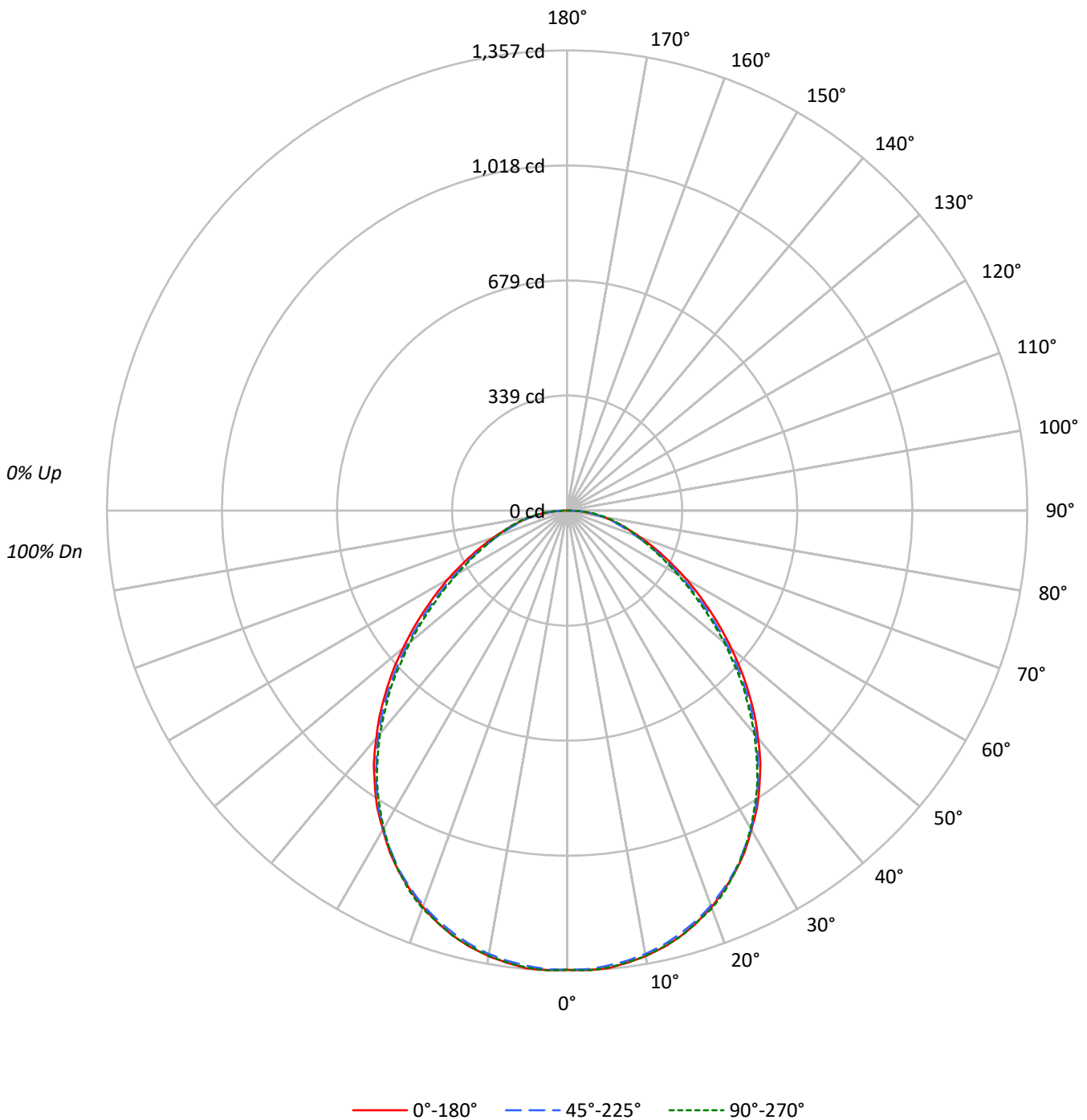
Input Watts (W): 20.925  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66		75	70	65		72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57		67	61	57		65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50		61	55	50		59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44		55	49	44		54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40		51	44	39		49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36		47	40	36		46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32		43	37	32		42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	29		39	33	29	28

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

	0°	45°	90°
0°	1822	1822	1822
5°	1830	1820	1828
10°	1823	1814	1822
15°	1808	1799	1810
20°	1782	1775	1788
25°	1743	1739	1743
30°	1688	1685	1681
35°	1624	1612	1606
40°	1538	1520	1508
45°	1439	1412	1395
50°	1322	1286	1265
55°	1206	1161	1127
60°	1095	1036	1009
65°	986	931	915
70°	903	844	868
75°	844	805	865
80°	838	822	903
85°	854	861	983



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.1	4.0
10°-20°	364.3	11.4
20°-30°	538.2	16.9
30°-40°	611.9	19.2
40°-50°	571.4	17.9
50°-60°	444.4	13.9
60°-70°	294.9	9.3
70°-80°	170.6	5.4
80°-90°	62.1	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°	1030.7	32.4
0°-40°	1642.6	51.6
0°-60°	2658.4	83.4
0°-90°	3186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3186.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1355	1348	1348	1350	1353	129
15°	1298	1292	1291	1291	1299	366
25°	1174	1169	1171	1169	1174	540
35°	989	984	982	975	978	617
45°	756	750	742	733	733	582
55°	514	506	495	482	481	461
65°	310	300	292	287	287	310
75°	162	158	155	162	166	174
85°	55	54	56	63	64	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1356.0	1352.1	1354.0	1352.6	1357.0
5°	1355.0	1348.1	1347.6	1350.1	1353.1
7.5°	1345.6	1338.1	1339.6	1339.6	1344.6
10°	1334.1	1326.7	1327.7	1328.2	1333.6
12.5°	1318.7	1311.2	1311.7	1311.2	1316.7
15°	1298.3	1291.8	1291.3	1290.8	1299.3
17.5°	1273.4	1264.4	1267.4	1267.9	1272.4
20°	1244.5	1237.5	1239.5	1239.0	1248.5
22.5°	1210.1	1205.1	1206.6	1205.6	1214.6
25°	1174.3	1169.3	1171.3	1168.8	1173.8
27.5°	1133.9	1130.4	1128.5	1127.0	1130.4
30°	1086.6	1084.6	1084.6	1078.2	1082.1
32.5°	1041.8	1035.3	1035.3	1032.8	1030.4
35°	989.0	984.0	981.5	974.6	977.6
37.5°	936.2	924.8	923.8	918.3	918.3
40°	875.5	869.0	865.5	859.5	858.5
42.5°	817.7	811.2	805.3	795.3	793.3
45°	756.0	750.0	742.0	732.6	733.0
47.5°	694.7	686.2	678.8	667.3	665.8
50°	631.5	625.5	614.5	604.6	604.1
52.5°	572.2	562.7	552.8	540.8	540.8
55°	513.9	506.5	495.0	482.1	480.6
57.5°	458.2	451.2	438.2	428.8	426.3
60°	406.9	396.9	385.0	377.0	375.0
62.5°	355.6	346.6	337.6	329.7	329.2
65°	309.8	300.3	292.3	286.8	287.3
67.5°	268.4	260.5	251.5	250.0	250.5
70°	229.6	221.1	214.6	218.1	220.6
72.5°	192.7	188.2	183.8	188.7	192.2
75°	162.3	158.4	154.9	161.8	166.3
77.5°	134.5	131.5	131.0	136.9	140.9
80°	108.1	104.6	106.1	113.0	116.5
82.5°	82.2	79.7	80.2	88.6	91.1
85°	55.3	54.3	55.8	63.2	63.7
87.5°	29.4	29.4	30.4	34.9	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)