

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: P293543

Luminaire Tested: **24GR-LD5-30-A-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-30-A-UNV-L93050-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2880.0 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

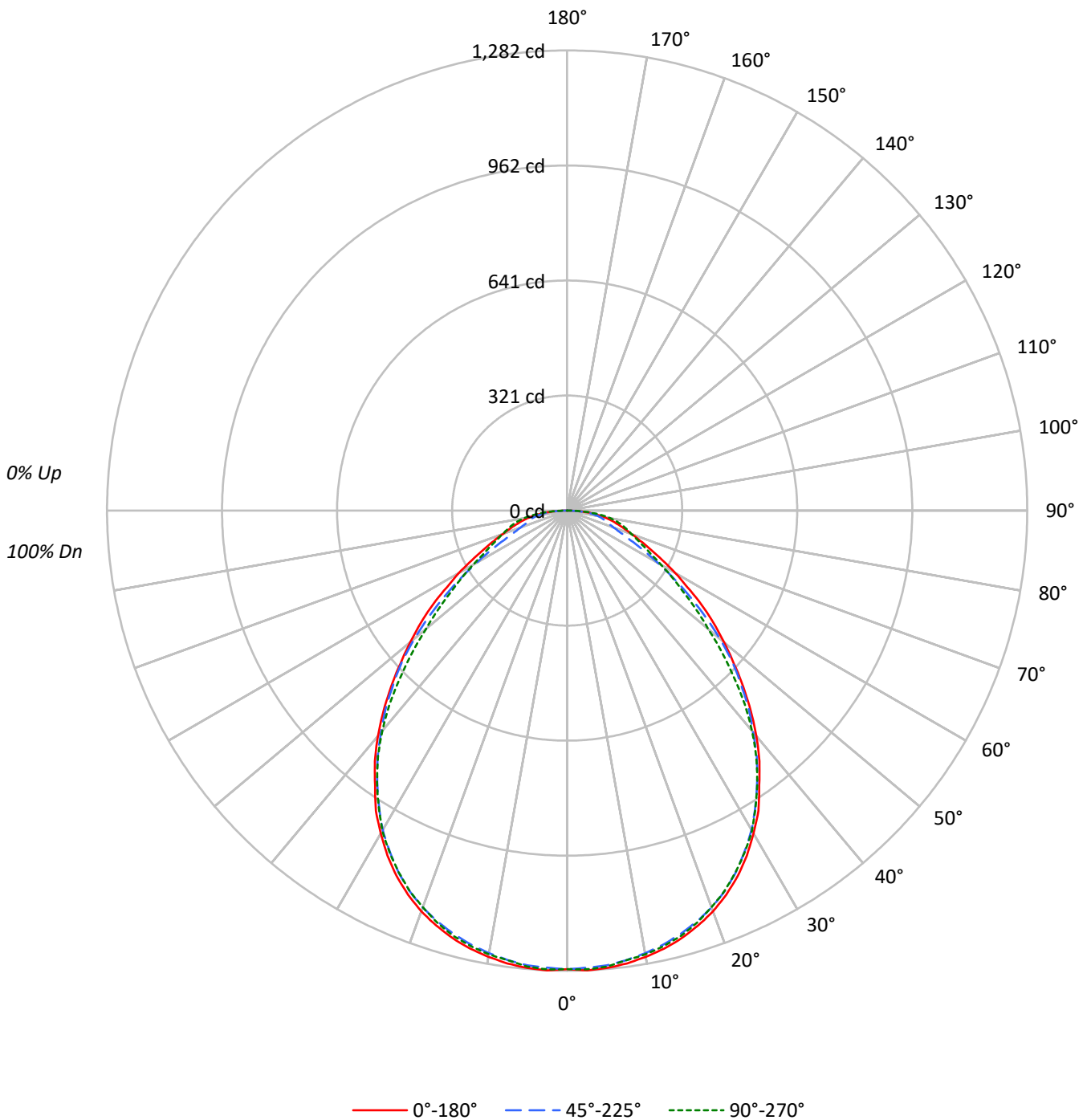
Input Watts (W): 20.83479  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

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

	0°	45°	90°
0°	1719	1719	1719
5°	1728	1718	1722
10°	1725	1711	1715
15°	1718	1701	1708
20°	1702	1684	1684
25°	1669	1651	1649
30°	1613	1597	1600
35°	1532	1515	1517
40°	1441	1416	1407
45°	1321	1303	1251
50°	1194	1161	1074
55°	1072	976	926
60°	939	785	814
65°	819	618	749
70°	749	539	749
75°	750	573	826
80°	814	676	941
85°	892	763	1010



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.0	4.2
10°-20°	345.3	12.0
20°-30°	512.1	17.8
30°-40°	577.7	20.1
40°-50°	523.2	18.2
50°-60°	377.4	13.1
60°-70°	225.4	7.8
70°-80°	139.3	4.8
80°-90°	58.7	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°	978.4	34.0
0°-40°	1556.0	54.0
0°-60°	2456.7	85.3
0°-90°	2880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2880.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1279	1277	1272	1271	1275	122
15°	1233	1226	1221	1221	1226	348
25°	1124	1118	1112	1108	1111	516
35°	933	932	922	923	924	584
45°	694	690	685	668	658	535
55°	457	443	416	396	395	408
65°	257	226	194	220	235	259
75°	144	125	110	138	159	154
85°	58	51	49	64	65	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1277.8	1277.8	1277.8	1277.8	1277.8
2.5°	1282.3	1278.7	1274.3	1276.9	1279.2
5°	1279.2	1277.4	1272.0	1270.7	1275.2
7.5°	1272.5	1268.0	1263.1	1265.4	1263.6
10°	1262.3	1258.2	1252.0	1252.5	1255.6
12.5°	1249.8	1244.9	1238.2	1240.0	1242.7
15°	1233.3	1225.8	1220.9	1221.3	1226.2
17.5°	1212.4	1206.6	1200.4	1201.7	1204.0
20°	1188.4	1185.3	1176.4	1173.7	1175.9
22.5°	1158.1	1152.4	1147.5	1146.1	1146.6
25°	1123.9	1117.6	1111.9	1107.9	1111.0
27.5°	1083.8	1078.5	1070.9	1069.6	1072.3
30°	1038.5	1034.4	1027.8	1026.0	1030.0
32.5°	992.2	985.5	976.2	976.2	977.1
35°	933.0	931.7	922.3	922.8	923.7
37.5°	879.6	873.4	868.0	862.7	865.4
40°	820.4	813.3	806.2	802.6	801.3
42.5°	756.8	751.5	748.4	735.5	732.3
45°	694.1	689.6	684.7	667.8	657.6
47.5°	630.0	629.1	625.1	595.3	585.1
50°	570.4	569.1	554.8	523.2	513.0
52.5°	513.9	505.0	486.3	455.2	453.4
55°	456.9	442.7	416.0	395.5	394.6
57.5°	396.9	380.0	352.8	341.7	347.5
60°	348.8	323.0	291.9	293.2	302.5
62.5°	299.0	270.1	239.4	252.7	263.8
65°	257.2	226.5	194.0	220.2	235.4
67.5°	220.7	192.2	161.1	196.2	210.9
70°	190.4	167.3	137.0	174.0	190.4
72.5°	166.4	145.0	121.5	156.2	175.3
75°	144.2	125.0	110.3	137.5	158.8
77.5°	125.0	106.3	99.7	121.5	142.4
80°	105.0	88.1	87.2	105.9	121.5
82.5°	81.9	70.3	70.3	88.5	97.9
85°	57.8	50.7	49.4	64.5	65.4
87.5°	29.8	28.5	25.8	33.8	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)