

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: P293291

Luminaire Tested: **24GR-LD5-30-F125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293291
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-L93050-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2847.0 lumens
Efficiency: N/A
Efficacy: 136.6 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

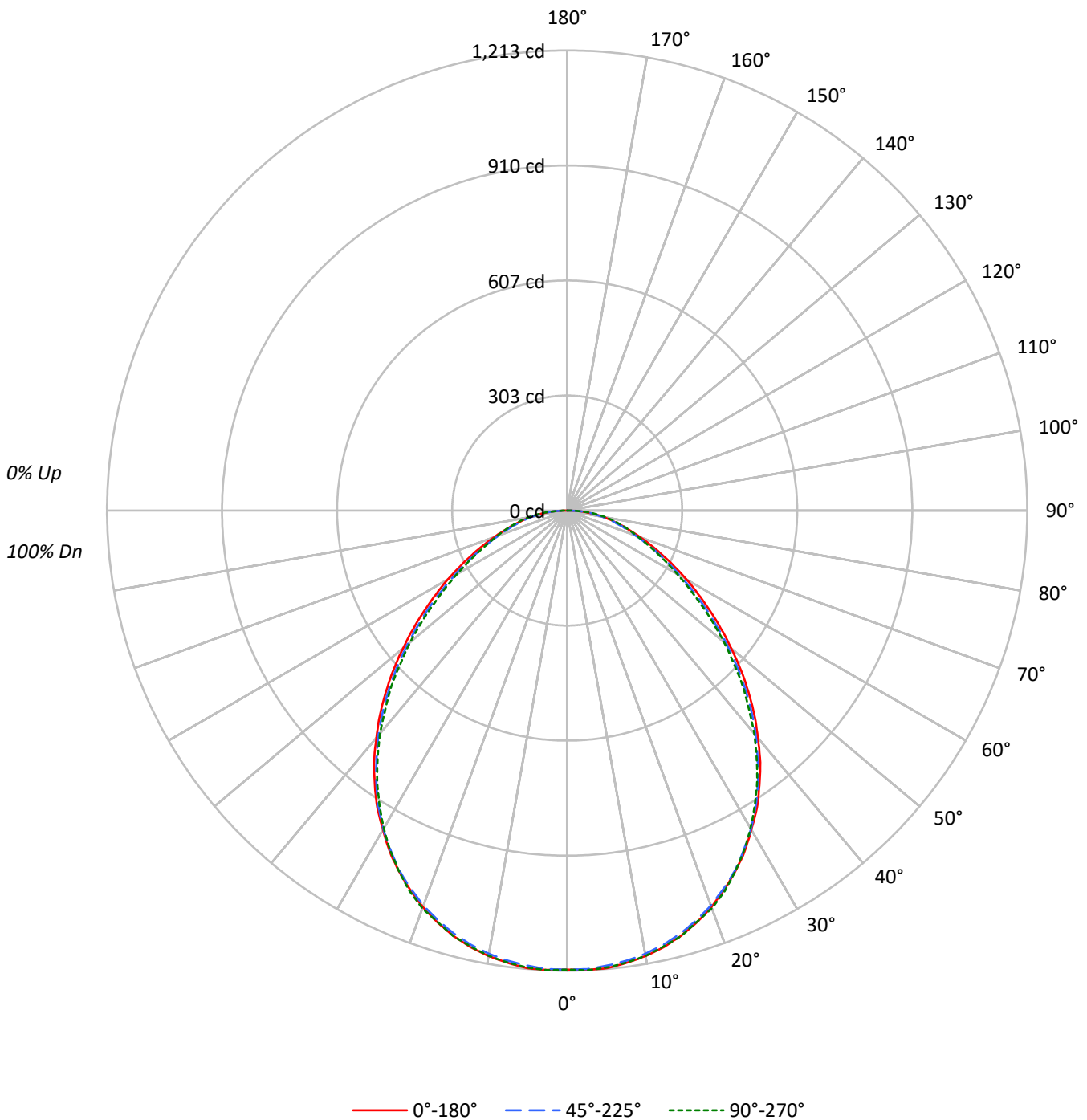
Input Watts (W): 20.83479
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	73	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°	1628	1628	1628
5°	1635	1626	1633
10°	1629	1621	1628
15°	1616	1607	1617
20°	1592	1586	1597
25°	1558	1554	1557
30°	1509	1506	1502
35°	1452	1441	1435
40°	1374	1358	1348
45°	1285	1262	1247
50°	1181	1149	1130
55°	1077	1038	1007
60°	978	926	902
65°	881	832	818
70°	807	755	775
75°	754	719	773
80°	748	735	807
85°	763	769	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	4.0
10°-20°	325.6	11.4
20°-30°	481.0	16.9
30°-40°	546.8	19.2
40°-50°	510.6	17.9
50°-60°	397.1	13.9
60°-70°	263.5	9.3
70°-80°	152.5	5.4
80°-90°	55.4	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°	921.0	32.4
0°-40°	1467.8	51.6
0°-60°	2375.6	83.4
0°-90°	2847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1211	1205	1204	1206	1209	115
15°	1160	1154	1154	1154	1161	327
25°	1049	1045	1047	1044	1049	482
35°	884	879	877	871	874	552
45°	676	670	663	655	655	520
55°	459	453	442	431	429	412
65°	277	268	261	256	257	277
75°	145	142	138	145	149	155
85°	49	48	50	56	57	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.0	1210.0	1210.0	1210.0	1210.0
2.5°	1211.8	1208.2	1210.0	1208.6	1212.6
5°	1210.9	1204.6	1204.2	1206.4	1209.1
7.5°	1202.4	1195.7	1197.1	1197.1	1201.5
10°	1192.2	1185.5	1186.4	1186.8	1191.7
12.5°	1178.4	1171.7	1172.1	1171.7	1176.6
15°	1160.1	1154.3	1153.9	1153.5	1161.0
17.5°	1137.9	1129.9	1132.5	1133.0	1137.0
20°	1112.1	1105.8	1107.6	1107.2	1115.6
22.5°	1081.4	1076.9	1078.3	1077.4	1085.4
25°	1049.3	1044.9	1046.7	1044.4	1048.9
27.5°	1013.3	1010.2	1008.4	1007.1	1010.2
30°	971.0	969.2	969.2	963.4	967.0
32.5°	931.0	925.2	925.2	922.9	920.7
35°	883.8	879.3	877.1	870.9	873.5
37.5°	836.6	826.4	825.5	820.6	820.6
40°	782.3	776.5	773.4	768.1	767.2
42.5°	730.7	724.9	719.6	710.7	708.9
45°	675.5	670.2	663.1	654.6	655.1
47.5°	620.8	613.2	606.5	596.3	595.0
50°	564.3	558.9	549.1	540.2	539.8
52.5°	511.3	502.9	494.0	483.3	483.3
55°	459.2	452.6	442.3	430.8	429.4
57.5°	409.4	403.2	391.6	383.2	380.9
60°	363.6	354.7	344.0	336.9	335.1
62.5°	317.7	309.7	301.7	294.6	294.1
65°	276.8	268.3	261.2	256.3	256.8
67.5°	239.9	232.7	224.7	223.4	223.8
70°	205.1	197.6	191.8	194.9	197.1
72.5°	172.2	168.2	164.2	168.7	171.8
75°	145.1	141.5	138.4	144.6	148.6
77.5°	120.2	117.5	117.0	122.4	125.9
80°	96.6	93.5	94.8	101.0	104.1
82.5°	73.4	71.2	71.6	79.2	81.4
85°	49.4	48.5	49.8	56.5	57.0
87.5°	26.3	26.3	27.1	31.2	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)