

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: P293081

Luminaire Tested: **24GR-LD5-30-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293081
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-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2484.0 lumens
Efficiency: N/A
Efficacy: 125.4 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

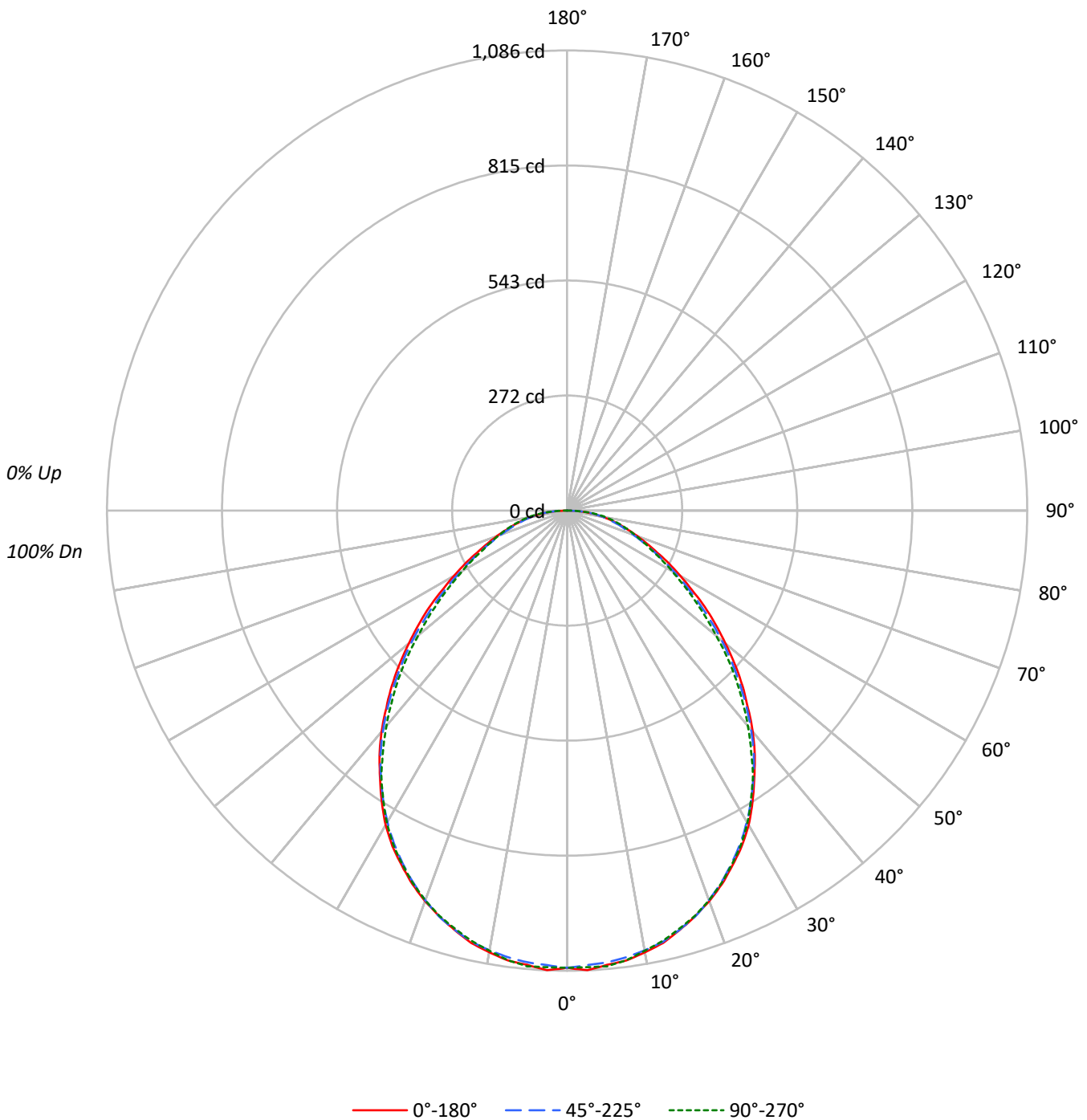
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1452	1452	1452
5°	1454	1446	1458
10°	1446	1440	1441
15°	1428	1427	1423
20°	1404	1401	1401
25°	1371	1364	1367
30°	1332	1318	1322
35°	1265	1259	1256
40°	1198	1187	1166
45°	1113	1094	1072
50°	1020	997	960
55°	932	889	859
60°	830	790	769
65°	747	708	698
70°	693	651	677
75°	663	634	687
80°	663	663	735
85°	689	696	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	4.1
10°-20°	288.4	11.6
20°-30°	423.2	17.0
30°-40°	478.5	19.3
40°-50°	442.2	17.8
50°-60°	340.7	13.7
60°-70°	225.6	9.1
70°-80°	134.3	5.4
80°-90°	49.2	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°	813.5	32.7
0°-40°	1292.0	52.0
0°-60°	2074.9	83.5
0°-90°	2484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1076	1076	1070	1071	1080	102
15°	1025	1023	1024	1024	1022	289
25°	924	921	919	918	921	425
35°	770	769	766	763	764	482
45°	585	581	575	565	564	451
55°	397	389	379	369	366	354
65°	235	231	222	220	219	235
75°	128	124	122	128	132	136
85°	45	42	45	50	50	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1079.0	1079.0	1079.0	1079.0	1079.0
2.5°	1085.7	1080.0	1073.9	1073.9	1078.5
5°	1076.4	1076.4	1070.3	1070.8	1079.5
7.5°	1070.8	1067.7	1063.6	1063.6	1070.3
10°	1058.5	1055.9	1053.9	1052.9	1054.9
12.5°	1045.2	1041.1	1042.6	1041.1	1040.6
15°	1025.2	1023.1	1024.2	1023.7	1021.6
17.5°	1003.7	1002.7	1004.7	1001.1	1002.7
20°	980.6	977.5	978.6	976.5	978.6
22.5°	954.5	952.4	949.9	947.3	951.4
25°	923.8	921.2	918.6	917.6	920.7
27.5°	893.0	888.9	885.3	884.3	888.9
30°	857.1	852.5	848.4	847.4	851.0
32.5°	814.6	813.6	808.5	806.4	808.0
35°	770.0	769.0	766.5	762.9	764.4
37.5°	727.5	727.0	723.4	717.3	713.2
40°	681.9	678.3	675.8	667.1	664.0
42.5°	631.7	630.7	626.1	616.3	612.8
45°	585.1	581.0	574.8	564.6	563.6
47.5°	536.9	531.3	525.7	512.9	512.3
50°	487.2	483.1	476.5	463.7	458.5
52.5°	441.1	435.5	426.3	414.0	411.4
55°	397.1	388.9	379.1	368.9	366.3
57.5°	349.9	346.3	334.6	326.4	323.3
60°	308.4	305.4	293.6	285.9	285.9
62.5°	271.0	266.4	256.2	251.0	251.0
65°	234.7	231.1	222.4	220.3	219.3
67.5°	203.4	198.8	192.6	192.1	194.7
70°	176.2	170.6	165.5	170.6	172.1
72.5°	150.6	147.0	142.4	149.1	152.2
75°	127.6	124.5	121.9	127.6	132.2
77.5°	106.6	103.5	103.5	109.6	113.7
80°	85.6	83.5	85.6	90.7	94.8
82.5°	65.6	64.0	66.6	71.7	74.3
85°	44.6	42.0	45.1	49.7	50.2
87.5°	21.0	20.5	22.5	25.6	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)