

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: P293085

Luminaire Tested: **24GR-LD5-30-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293085
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2818.0 lumens
Efficiency: N/A
Efficacy: 137.7 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

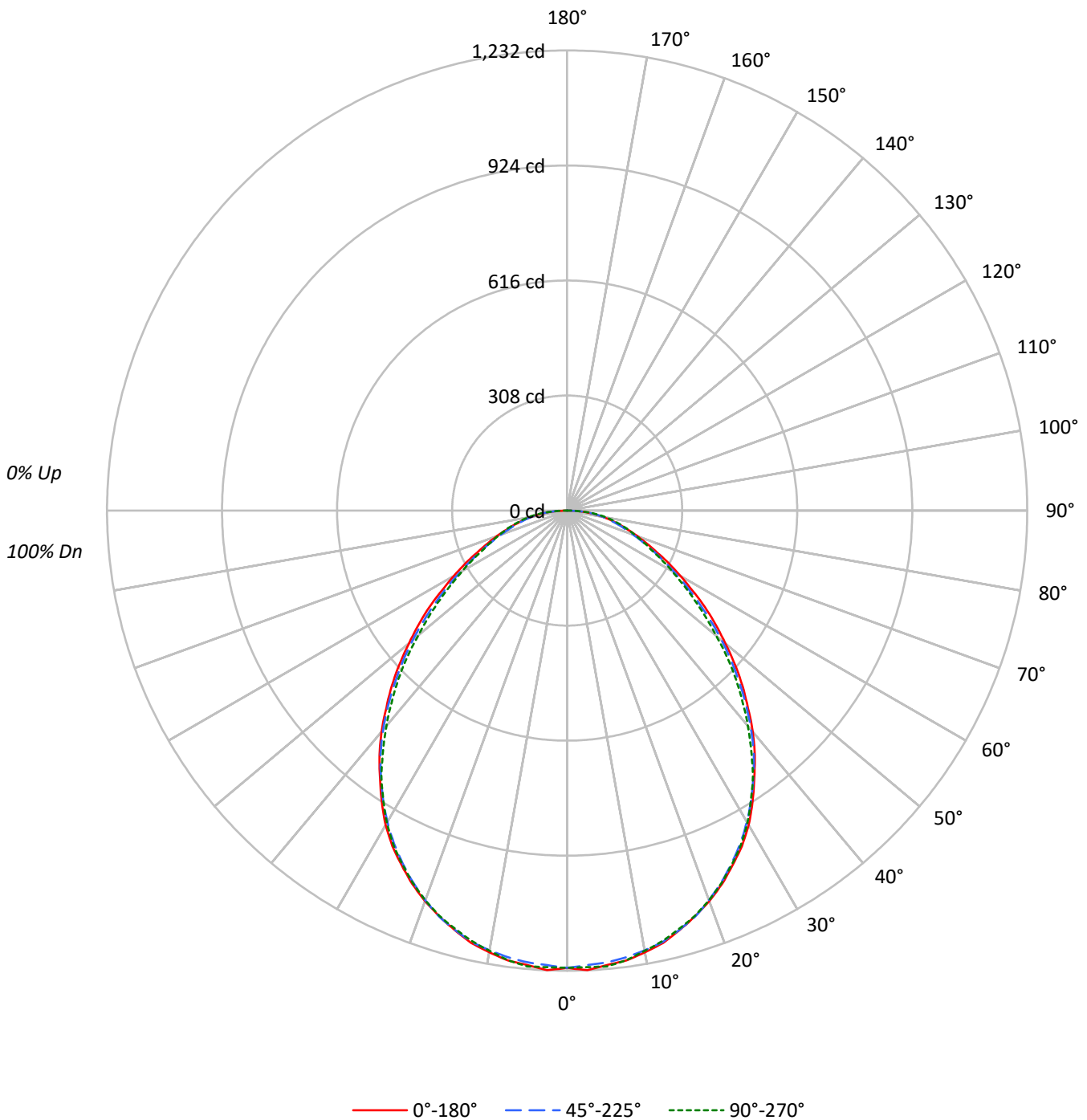
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1647	1647	1647
5°	1649	1640	1654
10°	1641	1633	1635
15°	1620	1618	1614
20°	1593	1590	1590
25°	1556	1547	1551
30°	1511	1495	1500
35°	1435	1428	1424
40°	1359	1346	1323
45°	1263	1241	1217
50°	1157	1131	1089
55°	1057	1009	975
60°	942	896	873
65°	848	803	792
70°	786	738	768
75°	752	719	780
80°	752	752	833
85°	781	789	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	4.1
10°-20°	327.1	11.6
20°-30°	480.1	17.0
30°-40°	542.8	19.3
40°-50°	501.7	17.8
50°-60°	386.5	13.7
60°-70°	255.9	9.1
70°-80°	152.3	5.4
80°-90°	55.8	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°	922.9	32.7
0°-40°	1465.7	52.0
0°-60°	2353.9	83.5
0°-90°	2818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1221	1221	1214	1215	1225	116
15°	1163	1161	1162	1161	1159	328
25°	1048	1045	1042	1041	1044	483
35°	874	872	870	866	867	547
45°	664	659	652	640	639	511
55°	450	441	430	418	416	402
65°	266	262	252	250	249	267
75°	145	141	138	145	150	154
85°	51	48	51	56	57	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.1	1224.1	1224.1	1224.1	1224.1
2.5°	1231.6	1225.2	1218.3	1218.3	1223.5
5°	1221.2	1221.2	1214.2	1214.8	1224.7
7.5°	1214.8	1211.3	1206.6	1206.6	1214.2
10°	1200.8	1197.9	1195.6	1194.4	1196.8
12.5°	1185.7	1181.1	1182.8	1181.1	1180.5
15°	1163.0	1160.7	1161.9	1161.3	1159.0
17.5°	1138.6	1137.5	1139.8	1135.7	1137.5
20°	1112.5	1109.0	1110.2	1107.8	1110.2
22.5°	1082.8	1080.5	1077.6	1074.7	1079.3
25°	1048.0	1045.1	1042.1	1041.0	1044.5
27.5°	1013.1	1008.4	1004.4	1003.2	1008.4
30°	972.4	967.2	962.5	961.4	965.4
32.5°	924.2	923.0	917.2	914.9	916.6
35°	873.6	872.4	869.5	865.5	867.2
37.5°	825.3	824.8	820.7	813.7	809.1
40°	773.6	769.5	766.6	756.8	753.3
42.5°	716.7	715.5	710.3	699.2	695.2
45°	663.8	659.1	652.1	640.5	639.4
47.5°	609.1	602.7	596.3	581.8	581.2
50°	552.8	548.1	540.5	526.0	520.2
52.5°	500.4	494.0	483.6	469.6	466.7
55°	450.5	441.2	430.1	418.5	415.6
57.5°	397.0	392.9	379.5	370.2	366.8
60°	349.9	346.4	333.0	324.3	324.3
62.5°	307.5	302.2	290.6	284.8	284.8
65°	266.2	262.1	252.3	249.9	248.8
67.5°	230.7	225.5	218.5	218.0	220.9
70°	199.9	193.5	187.7	193.5	195.3
72.5°	170.9	166.8	161.6	169.1	172.6
75°	144.7	141.2	138.3	144.7	150.0
77.5°	120.9	117.4	117.4	124.4	129.0
80°	97.1	94.7	97.1	102.9	107.5
82.5°	74.4	72.7	75.6	81.4	84.3
85°	50.6	47.7	51.1	56.4	57.0
87.5°	23.8	23.2	25.6	29.1	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)