

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: P293206

Luminaire Tested: **24GR-LD5-30-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293206
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2797.0 lumens
Efficiency: N/A
Efficacy: 139.9 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

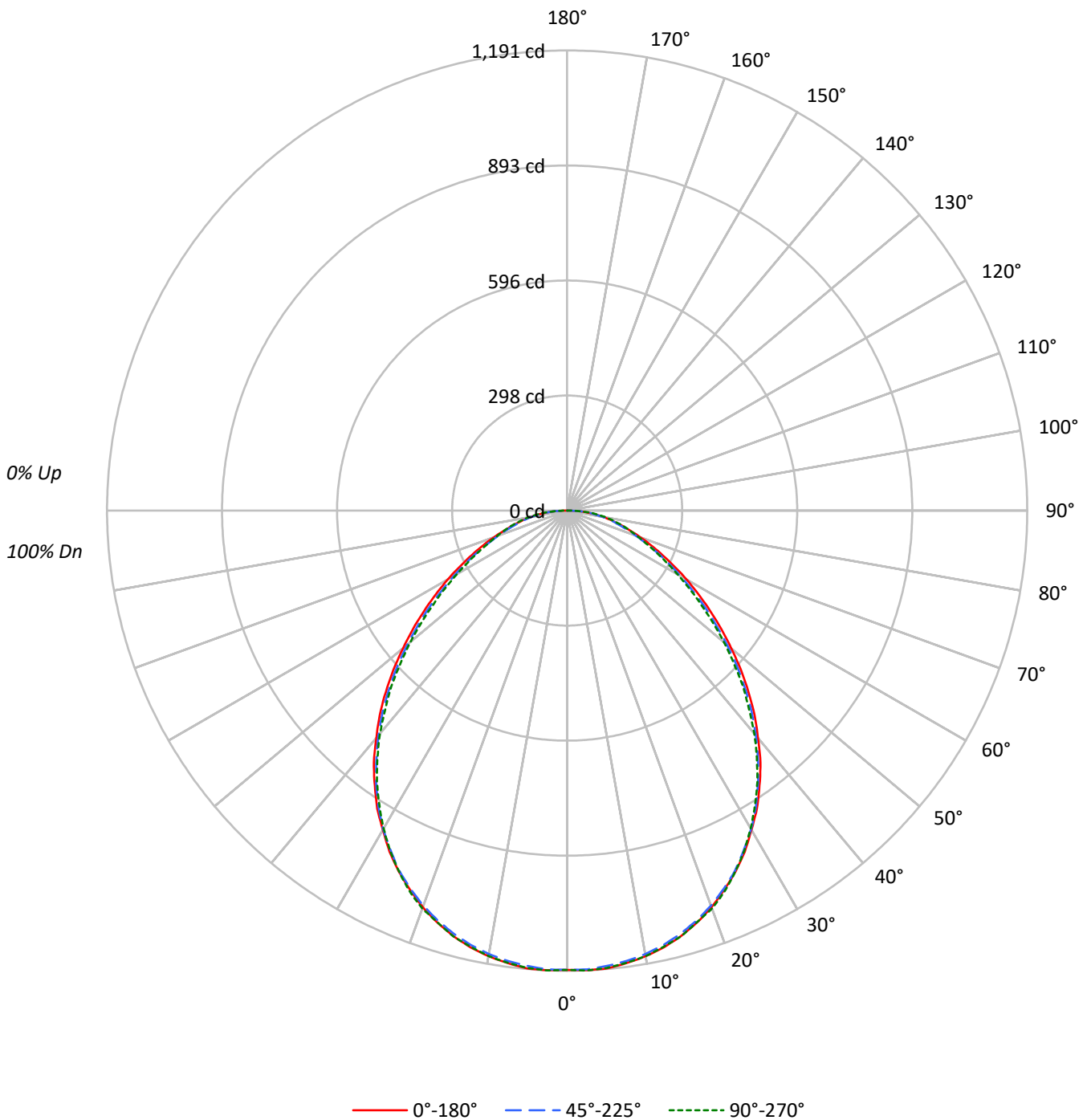
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293206

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P293206

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-2700K

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	72	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°	1599	1599	1599
5°	1607	1598	1604
10°	1600	1592	1600
15°	1588	1579	1589
20°	1564	1558	1569
25°	1530	1527	1530
30°	1482	1479	1476
35°	1426	1415	1410
40°	1350	1335	1324
45°	1263	1239	1224
50°	1160	1129	1110
55°	1058	1019	990
60°	961	909	886
65°	866	817	803
70°	793	741	762
75°	741	707	759
80°	735	721	793
85°	749	756	865



TEST NUMBER: P293206

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	4.0
10°-20°	319.8	11.4
20°-30°	472.5	16.9
30°-40°	537.2	19.2
40°-50°	501.7	17.9
50°-60°	390.1	13.9
60°-70°	258.9	9.3
70°-80°	149.8	5.4
80°-90°	54.5	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°	904.9	32.4
0°-40°	1442.1	51.6
0°-60°	2333.8	83.4
0°-90°	2797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1190	1184	1183	1185	1188	113
15°	1140	1134	1134	1133	1141	321
25°	1031	1026	1028	1026	1030	474
35°	868	864	862	856	858	542
45°	664	658	651	643	644	511
55°	451	445	435	423	422	405
65°	272	264	257	252	252	272
75°	142	139	136	142	146	152
85°	48	48	49	56	56	53
90°	0	0	0	0	0	



TEST NUMBER: P293206

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1188.7	1188.7	1188.7	1188.7	1188.7
2.5°	1190.5	1187.0	1188.7	1187.4	1191.3
5°	1189.6	1183.5	1183.0	1185.2	1187.9
7.5°	1181.3	1174.7	1176.0	1176.0	1180.4
10°	1171.2	1164.7	1165.6	1166.0	1170.8
12.5°	1157.7	1151.1	1151.6	1151.1	1155.9
15°	1139.8	1134.1	1133.6	1133.2	1140.6
17.5°	1117.9	1110.0	1112.7	1113.1	1117.0
20°	1092.5	1086.4	1088.2	1087.7	1096.0
22.5°	1062.4	1058.0	1059.3	1058.4	1066.3
25°	1030.9	1026.5	1028.3	1026.1	1030.5
27.5°	995.5	992.4	990.7	989.4	992.4
30°	954.0	952.2	952.2	946.5	950.0
32.5°	914.6	908.9	908.9	906.7	904.5
35°	868.3	863.9	861.7	855.6	858.2
37.5°	821.9	811.9	811.0	806.2	806.2
40°	768.6	762.9	759.8	754.6	753.7
42.5°	717.9	712.2	706.9	698.2	696.4
45°	663.7	658.4	651.4	643.1	643.5
47.5°	609.9	602.5	595.9	585.8	584.5
50°	554.4	549.1	539.5	530.8	530.3
52.5°	502.3	494.0	485.3	474.8	474.8
55°	451.2	444.6	434.6	423.2	421.9
57.5°	402.2	396.1	384.7	376.4	374.2
60°	357.2	348.4	337.9	331.0	329.2
62.5°	312.2	304.3	296.4	289.4	289.0
65°	271.9	263.6	256.6	251.8	252.3
67.5°	235.6	228.7	220.8	219.5	219.9
70°	201.5	194.1	188.4	191.5	193.7
72.5°	169.2	165.3	161.3	165.7	168.8
75°	142.5	139.0	136.0	142.1	146.0
77.5°	118.0	115.4	115.0	120.2	123.7
80°	94.9	91.8	93.1	99.2	102.3
82.5°	72.1	70.0	70.4	77.8	80.0
85°	48.5	47.7	49.0	55.5	56.0
87.5°	25.8	25.8	26.7	30.6	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)