

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: P292963

Luminaire Tested: **24GR-LD5-34-F1-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292963
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-LD5-34-F1-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3203.0 lumens
Efficiency: N/A
Efficacy: 139.4 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

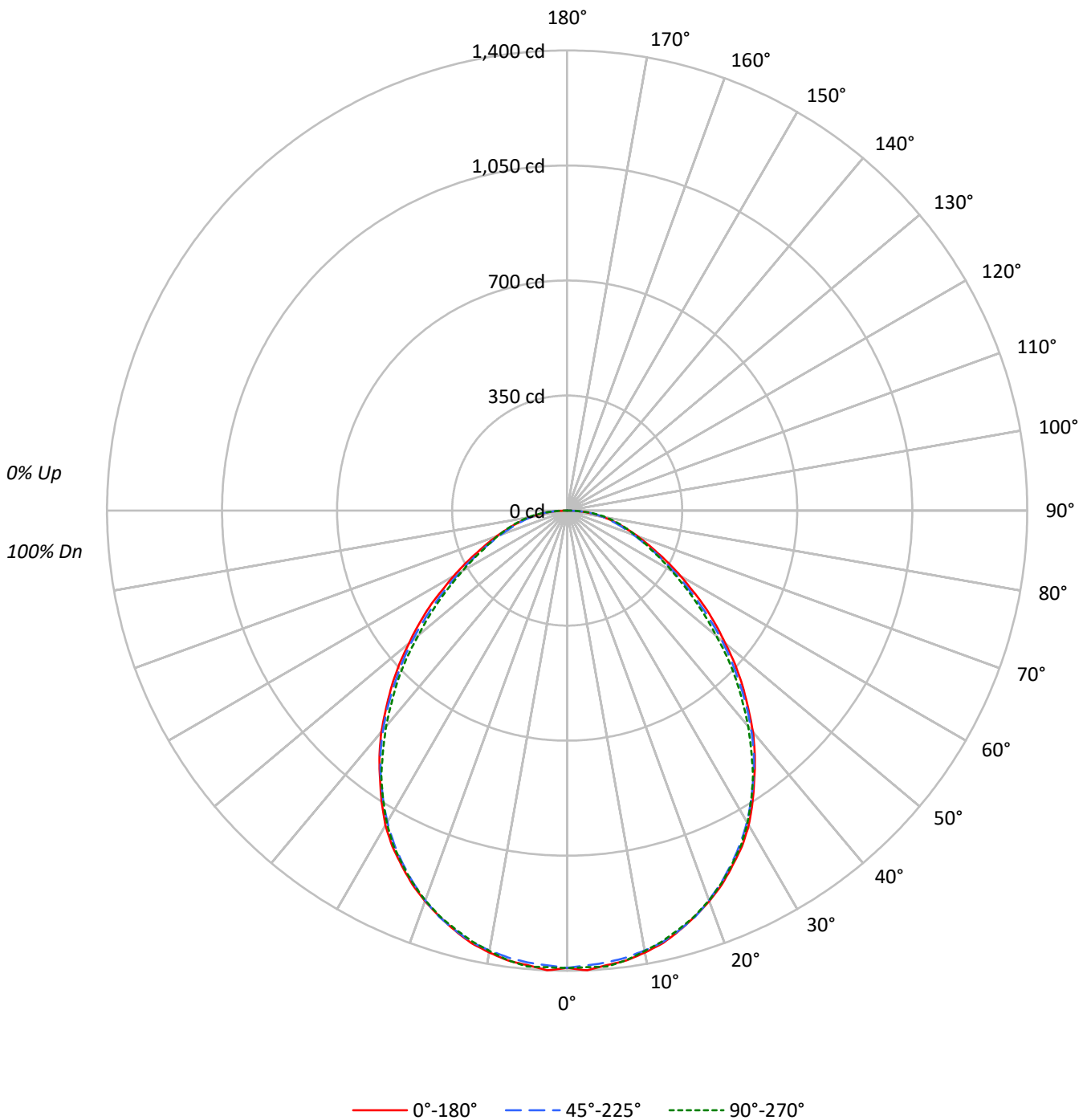
Input Watts (W): 22.971
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292963

CATALOG NUMBER: 24GR-LD5-34-F1-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P292963

CATALOG NUMBER: 24GR-LD5-34-F1-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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	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	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1872	1872	1872
5°	1875	1864	1880
10°	1865	1857	1859
15°	1841	1840	1835
20°	1811	1807	1807
25°	1768	1758	1762
30°	1717	1700	1705
35°	1631	1623	1619
40°	1544	1531	1504
45°	1436	1410	1383
50°	1315	1286	1238
55°	1201	1147	1108
60°	1070	1019	992
65°	963	913	900
70°	894	840	873
75°	855	817	886
80°	855	855	947
85°	888	897	999



TEST NUMBER: P292963

CATALOG NUMBER: 24GR-LD5-34-F1-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	4.1
10°-20°	371.8	11.6
20°-30°	545.7	17.0
30°-40°	617.0	19.3
40°-50°	570.2	17.8
50°-60°	439.3	13.7
60°-70°	290.9	9.1
70°-80°	173.2	5.4
80°-90°	63.4	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°	1049.0	32.7
0°-40°	1665.9	52.0
0°-60°	2675.5	83.5
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1391	1391	1391	1391	1391	
5°	1388	1388	1380	1381	1392	132
15°	1322	1319	1321	1320	1317	373
25°	1191	1188	1184	1183	1187	548
35°	993	992	988	984	986	621
45°	754	749	741	728	727	581
55°	512	501	489	476	472	457
65°	303	298	287	284	283	303
75°	164	160	157	164	170	175
85°	58	54	58	64	65	61
90°	0	0	0	0	0	



TEST NUMBER: P292963

CATALOG NUMBER: 24GR-LD5-34-F1-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1391.3	1391.3	1391.3	1391.3	1391.3
2.5°	1399.9	1392.6	1384.7	1384.7	1390.6
5°	1388.0	1388.0	1380.1	1380.7	1392.0
7.5°	1380.7	1376.8	1371.5	1371.5	1380.1
10°	1364.9	1361.6	1358.9	1357.6	1360.3
12.5°	1347.7	1342.4	1344.4	1342.4	1341.8
15°	1321.9	1319.3	1320.6	1320.0	1317.3
17.5°	1294.2	1292.9	1295.5	1290.9	1292.9
20°	1264.5	1260.5	1261.8	1259.2	1261.8
22.5°	1230.8	1228.1	1224.8	1221.5	1226.8
25°	1191.1	1187.8	1184.5	1183.2	1187.2
27.5°	1151.5	1146.2	1141.6	1140.3	1146.2
30°	1105.3	1099.3	1094.0	1092.7	1097.3
32.5°	1050.4	1049.1	1042.5	1039.8	1041.8
35°	992.9	991.6	988.3	983.7	985.7
37.5°	938.1	937.4	932.8	924.9	919.6
40°	879.3	874.7	871.4	860.2	856.2
42.5°	814.6	813.2	807.3	794.7	790.1
45°	754.5	749.2	741.2	728.0	726.7
47.5°	692.4	685.1	677.8	661.3	660.6
50°	628.3	623.0	614.4	597.9	591.3
52.5°	568.8	561.5	549.7	533.8	530.5
55°	512.0	501.4	488.9	475.7	472.4
57.5°	451.2	446.6	431.4	420.8	416.9
60°	397.7	393.7	378.5	368.6	368.6
62.5°	349.5	343.5	330.3	323.7	323.7
65°	302.6	297.9	286.7	284.1	282.8
67.5°	262.3	256.3	248.4	247.7	251.0
70°	227.3	220.0	213.4	220.0	222.0
72.5°	194.2	189.6	183.7	192.2	196.2
75°	164.5	160.5	157.2	164.5	170.4
77.5°	137.4	133.4	133.4	141.4	146.7
80°	110.3	107.7	110.3	116.9	122.2
82.5°	84.6	82.6	85.9	92.5	95.8
85°	57.5	54.2	58.1	64.1	64.7
87.5°	27.1	26.4	29.1	33.0	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)