

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: P293090

Luminaire Tested: **24GR-LD5-34-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293090
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-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: 2845.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

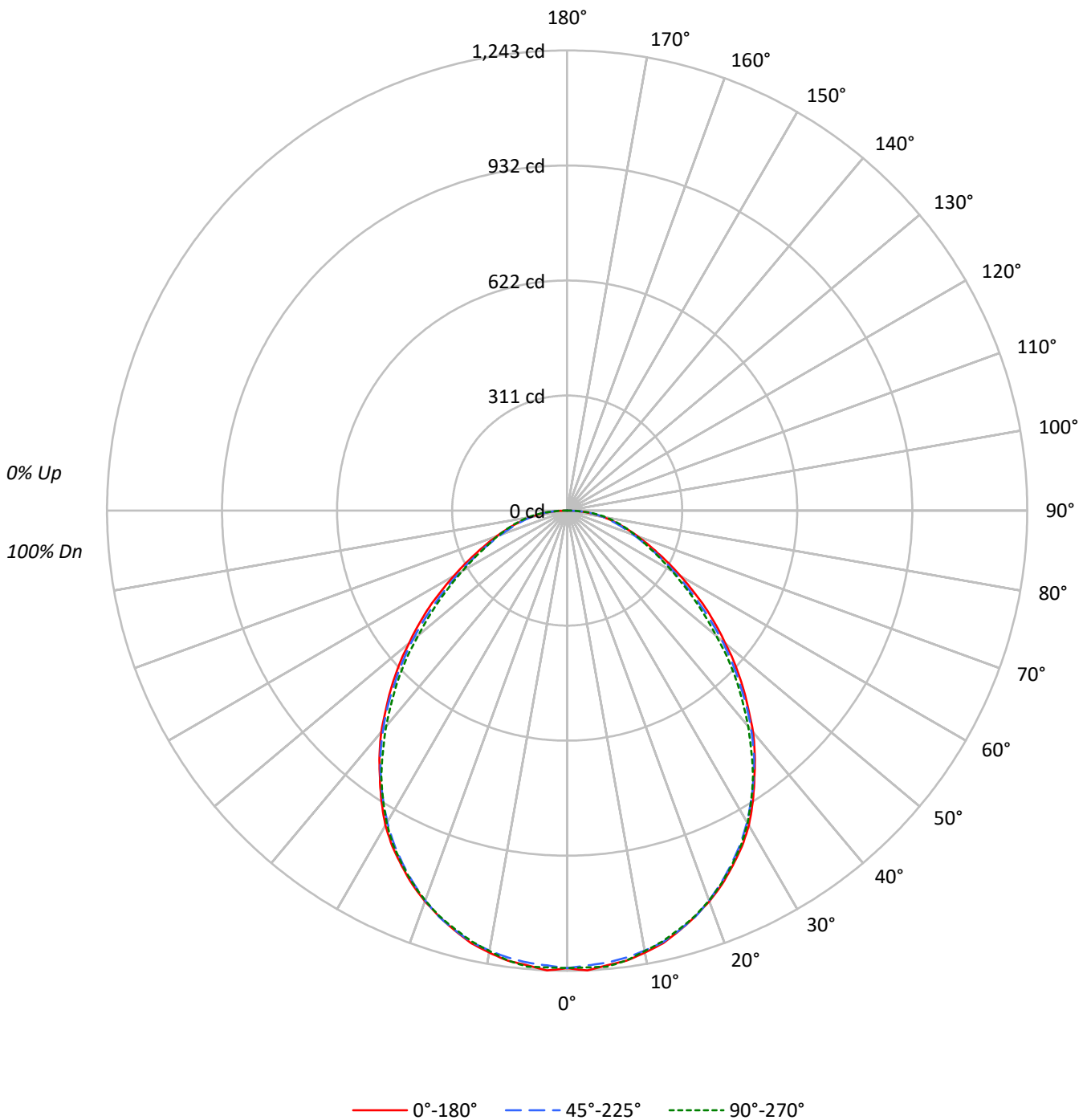
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1663	1663	1663
5°	1665	1656	1670
10°	1656	1649	1651
15°	1636	1634	1630
20°	1608	1605	1605
25°	1571	1562	1565
30°	1525	1510	1514
35°	1449	1442	1438
40°	1372	1359	1336
45°	1275	1253	1228
50°	1168	1142	1099
55°	1067	1019	984
60°	951	905	881
65°	856	811	800
70°	794	745	776
75°	760	726	787
80°	759	759	841
85°	789	797	888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	4.1
10°-20°	330.3	11.6
20°-30°	484.7	17.0
30°-40°	548.0	19.3
40°-50°	506.5	17.8
50°-60°	390.2	13.7
60°-70°	258.4	9.1
70°-80°	153.8	5.4
80°-90°	56.3	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°	931.7	32.7
0°-40°	1479.7	52.0
0°-60°	2376.4	83.5
0°-90°	2845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1233	1233	1226	1226	1236	117
15°	1174	1172	1173	1172	1170	331
25°	1058	1055	1052	1051	1054	487
35°	882	881	878	874	876	552
45°	670	665	658	647	646	516
55°	455	445	434	422	420	406
65°	269	265	255	252	251	269
75°	146	143	140	146	151	156
85°	51	48	52	57	58	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.8	1235.8	1235.8	1235.8	1235.8
2.5°	1243.4	1237.0	1229.9	1229.9	1235.2
5°	1232.9	1232.9	1225.8	1226.4	1236.4
7.5°	1226.4	1222.9	1218.2	1218.2	1225.8
10°	1212.3	1209.4	1207.0	1205.9	1208.2
12.5°	1197.1	1192.4	1194.1	1192.4	1191.8
15°	1174.2	1171.8	1173.0	1172.4	1170.1
17.5°	1149.5	1148.4	1150.7	1146.6	1148.4
20°	1123.1	1119.6	1120.8	1118.4	1120.8
22.5°	1093.2	1090.9	1087.9	1085.0	1089.7
25°	1058.0	1055.1	1052.1	1051.0	1054.5
27.5°	1022.8	1018.1	1014.0	1012.8	1018.1
30°	981.7	976.4	971.7	970.6	974.7
32.5°	933.0	931.8	926.0	923.6	925.4
35°	882.0	880.8	877.9	873.7	875.5
37.5°	833.3	832.7	828.6	821.5	816.8
40°	781.0	776.9	774.0	764.0	760.5
42.5°	723.5	722.4	717.1	705.9	701.8
45°	670.1	665.4	658.4	646.7	645.5
47.5°	615.0	608.5	602.1	587.4	586.8
50°	558.0	553.4	545.7	531.1	525.2
52.5°	505.2	498.8	488.2	474.1	471.2
55°	454.8	445.4	434.2	422.5	419.6
57.5°	400.8	396.7	383.2	373.8	370.3
60°	353.3	349.7	336.2	327.4	327.4
62.5°	310.4	305.1	293.4	287.5	287.5
65°	268.8	264.6	254.7	252.3	251.2
67.5°	233.0	227.7	220.6	220.0	223.0
70°	201.9	195.4	189.5	195.4	197.2
72.5°	172.5	168.4	163.1	170.8	174.3
75°	146.1	142.6	139.7	146.1	151.4
77.5°	122.1	118.5	118.5	125.6	130.3
80°	98.0	95.6	98.0	103.9	108.6
82.5°	75.1	73.3	76.3	82.2	85.1
85°	51.1	48.1	51.6	56.9	57.5
87.5°	24.1	23.5	25.8	29.3	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)