

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: P293343

Luminaire Tested: **24GR-LD5-34-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293343
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-LD5-34-F125-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2987.0 lumens
Efficiency: N/A
Efficacy: 129.5 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

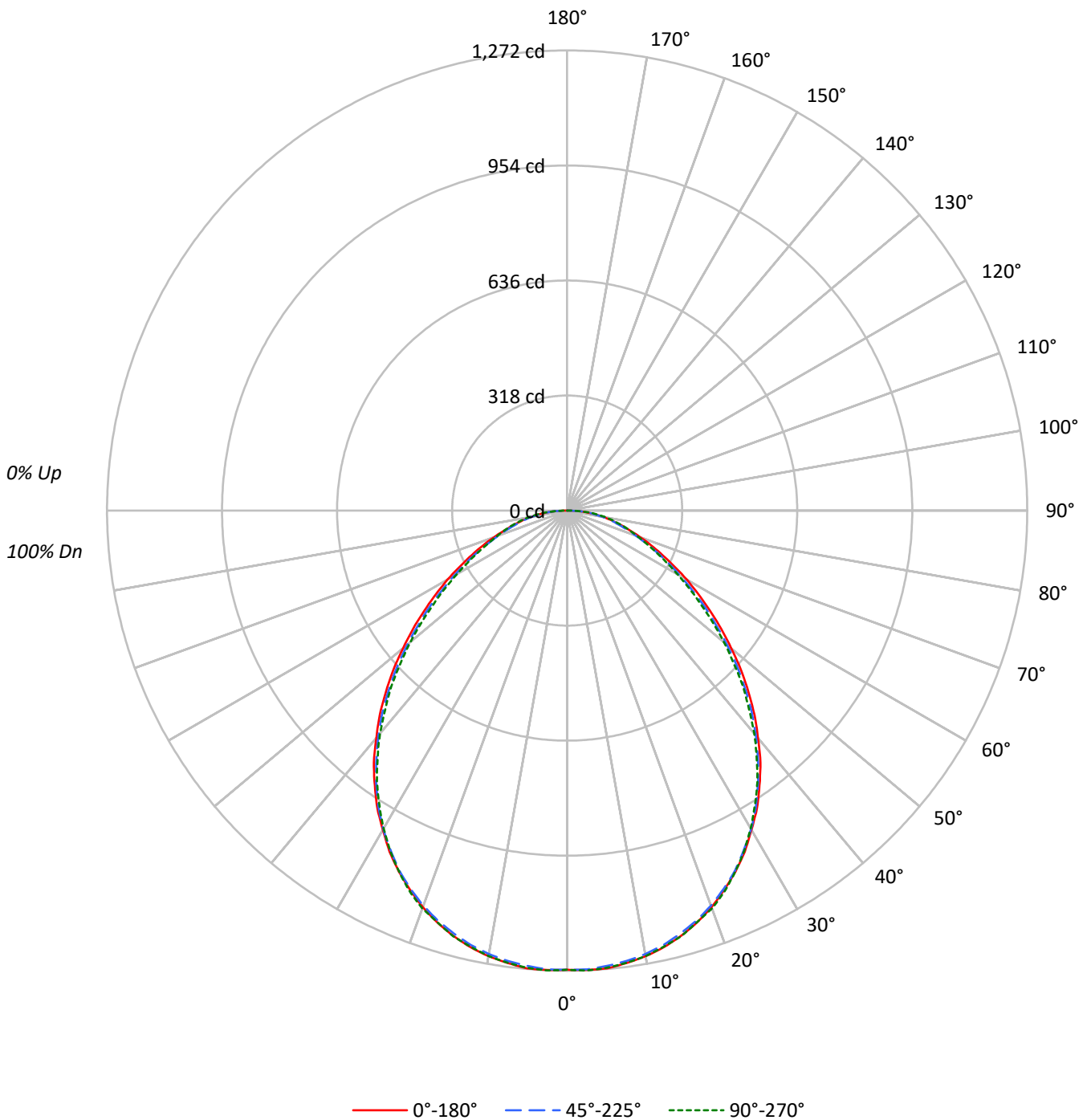
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1708	1708	1708
5°	1716	1706	1713
10°	1709	1701	1708
15°	1696	1686	1697
20°	1671	1664	1676
25°	1634	1630	1634
30°	1583	1580	1576
35°	1523	1511	1505
40°	1442	1425	1414
45°	1349	1324	1308
50°	1239	1206	1185
55°	1130	1089	1057
60°	1026	971	946
65°	925	873	858
70°	847	792	814
75°	791	755	810
80°	785	770	847
85°	800	807	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	4.0
10°-20°	341.6	11.4
20°-30°	504.6	16.9
30°-40°	573.7	19.2
40°-50°	535.7	17.9
50°-60°	416.6	13.9
60°-70°	276.5	9.3
70°-80°	160.0	5.4
80°-90°	58.2	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°	966.3	32.4
0°-40°	1540.0	51.6
0°-60°	2492.4	83.4
0°-90°	2987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1270	1264	1263	1266	1268	121
15°	1217	1211	1211	1210	1218	343
25°	1101	1096	1098	1096	1100	506
35°	927	923	920	914	916	579
45°	709	703	696	687	687	546
55°	482	475	464	452	450	432
65°	290	282	274	269	269	290
75°	152	148	145	152	156	163
85°	52	51	52	59	60	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.5	1269.5	1269.5	1269.5	1269.5
2.5°	1271.3	1267.6	1269.5	1268.1	1272.3
5°	1270.4	1263.9	1263.4	1265.7	1268.5
7.5°	1261.5	1254.5	1255.9	1255.9	1260.6
10°	1250.8	1243.8	1244.7	1245.2	1250.3
12.5°	1236.3	1229.3	1229.8	1229.3	1234.5
15°	1217.2	1211.1	1210.6	1210.2	1218.1
17.5°	1193.8	1185.4	1188.2	1188.7	1192.9
20°	1166.8	1160.2	1162.1	1161.6	1170.5
22.5°	1134.5	1129.9	1131.3	1130.3	1138.7
25°	1100.9	1096.3	1098.1	1095.8	1100.5
27.5°	1063.1	1059.8	1058.0	1056.6	1059.8
30°	1018.8	1016.9	1016.9	1010.8	1014.6
32.5°	976.7	970.7	970.7	968.3	966.0
35°	927.2	922.6	920.2	913.7	916.5
37.5°	877.8	867.0	866.1	860.9	860.9
40°	820.8	814.7	811.5	805.9	804.9
42.5°	766.6	760.6	755.0	745.6	743.8
45°	708.7	703.1	695.7	686.8	687.3
47.5°	651.3	643.4	636.4	625.6	624.2
50°	592.0	586.4	576.1	566.8	566.3
52.5°	536.5	527.6	518.2	507.0	507.0
55°	481.8	474.8	464.1	451.9	450.5
57.5°	429.5	423.0	410.9	402.0	399.7
60°	381.4	372.1	360.9	353.4	351.6
62.5°	333.4	325.0	316.6	309.1	308.6
65°	290.4	281.5	274.1	268.9	269.4
67.5°	251.7	244.2	235.8	234.4	234.8
70°	215.2	207.3	201.2	204.5	206.8
72.5°	180.7	176.5	172.3	177.0	180.2
75°	152.2	148.5	145.2	151.7	155.9
77.5°	126.1	123.3	122.8	128.4	132.1
80°	101.3	98.0	99.4	106.0	109.3
82.5°	77.0	74.7	75.2	83.1	85.4
85°	51.8	50.9	52.3	59.3	59.8
87.5°	27.5	27.5	28.5	32.7	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)