

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: P293167

Luminaire Tested: **24GR-LD5-34-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293167
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-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3491.0 lumens
Efficiency: N/A
Efficacy: 152.0 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

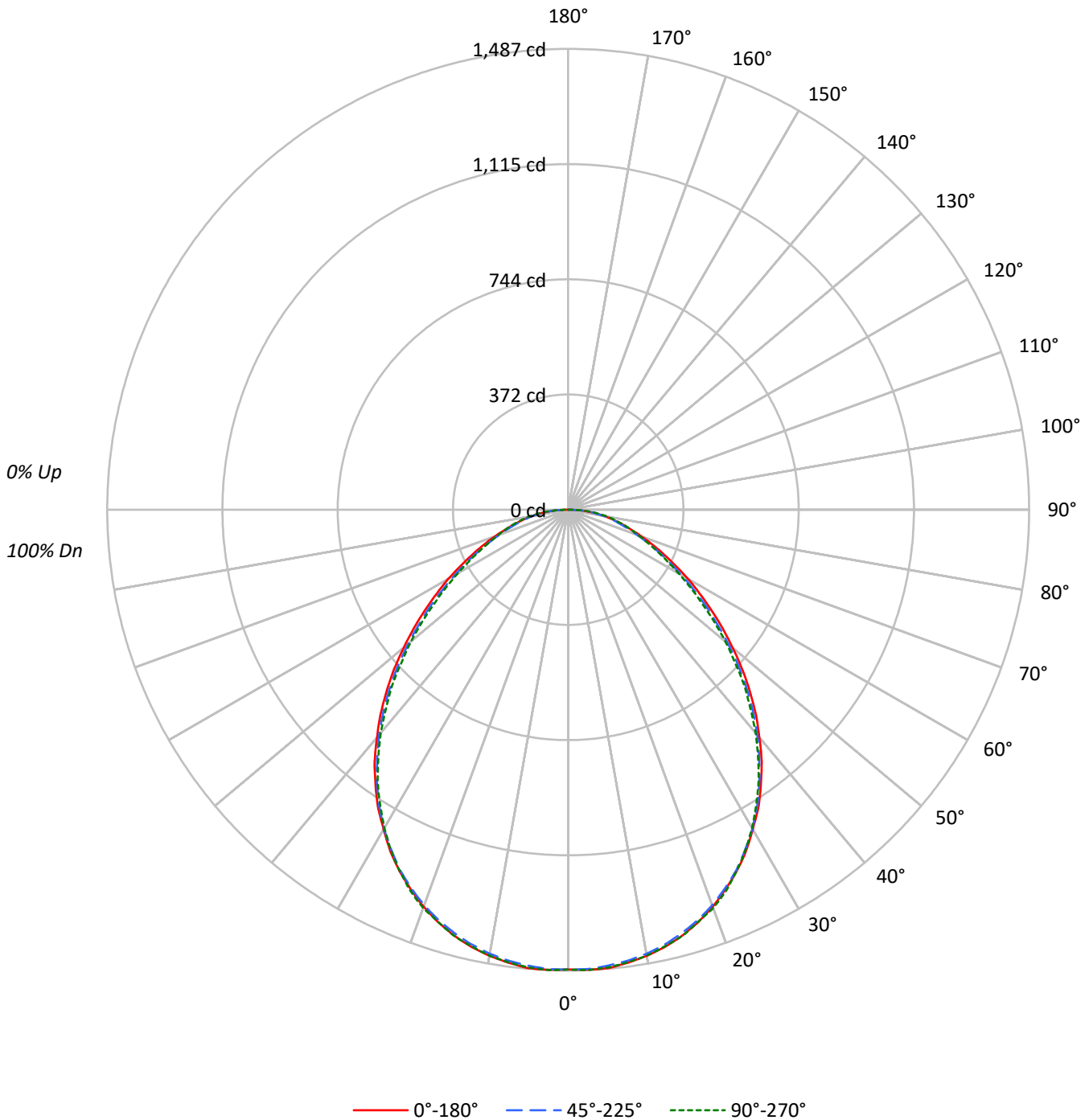
Input Watts (W): 22.971
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1996	1996	1996
5°	2005	1994	2002
10°	1997	1988	1996
15°	1982	1971	1983
20°	1952	1945	1959
25°	1910	1905	1909
30°	1850	1846	1842
35°	1780	1767	1759
40°	1685	1666	1652
45°	1576	1547	1528
50°	1448	1410	1385
55°	1321	1272	1235
60°	1200	1135	1106
65°	1081	1020	1003
70°	990	925	951
75°	925	882	948
80°	917	900	989
85°	936	943	1078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	4.0
10°-20°	399.2	11.4
20°-30°	589.8	16.9
30°-40°	670.5	19.2
40°-50°	626.1	17.9
50°-60°	486.9	13.9
60°-70°	323.1	9.3
70°-80°	187.0	5.4
80°-90°	68.0	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°	1129.4	32.4
0°-40°	1799.9	51.6
0°-60°	2912.9	83.4
0°-90°	3491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1485	1477	1477	1479	1483	141
15°	1423	1416	1415	1414	1424	401
25°	1287	1281	1283	1281	1286	592
35°	1084	1078	1076	1068	1071	677
45°	828	822	813	803	803	638
55°	563	555	542	528	527	505
65°	339	329	320	314	315	339
75°	178	174	170	177	182	190
85°	61	60	61	69	70	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1483.7	1483.7	1483.7	1483.7	1483.7
2.5°	1485.9	1481.5	1483.7	1482.0	1486.9
5°	1484.8	1477.1	1476.6	1479.3	1482.6
7.5°	1474.4	1466.2	1467.9	1467.9	1473.3
10°	1461.8	1453.7	1454.8	1455.3	1461.3
12.5°	1444.9	1436.7	1437.3	1436.7	1442.7
15°	1422.6	1415.5	1414.9	1414.4	1423.7
17.5°	1395.3	1385.5	1388.7	1389.3	1394.2
20°	1363.6	1356.0	1358.2	1357.6	1368.0
22.5°	1326.0	1320.5	1322.2	1321.1	1330.9
25°	1286.7	1281.2	1283.4	1280.7	1286.1
27.5°	1242.5	1238.7	1236.5	1234.8	1238.7
30°	1190.7	1188.5	1188.5	1181.4	1185.7
32.5°	1141.5	1134.4	1134.4	1131.7	1129.0
35°	1083.7	1078.2	1075.5	1067.9	1071.1
37.5°	1025.9	1013.3	1012.2	1006.2	1006.2
40°	959.3	952.2	948.4	941.8	940.7
42.5°	896.0	888.9	882.3	871.4	869.3
45°	828.3	821.8	813.0	802.7	803.2
47.5°	761.2	751.9	743.7	731.2	729.6
50°	691.9	685.4	673.4	662.4	661.9
52.5°	627.0	616.6	605.7	592.6	592.6
55°	563.1	554.9	542.4	528.2	526.6
57.5°	502.0	494.4	480.2	469.8	467.1
60°	445.8	434.9	421.8	413.1	410.9
62.5°	389.6	379.8	370.0	361.2	360.7
65°	339.4	329.0	320.3	314.3	314.9
67.5°	294.1	285.4	275.6	273.9	274.5
70°	251.6	242.3	235.2	239.0	241.7
72.5°	211.2	206.3	201.4	206.8	210.6
75°	177.9	173.5	169.7	177.3	182.3
77.5°	147.3	144.1	143.5	150.1	154.4
80°	118.4	114.6	116.2	123.9	127.7
82.5°	90.0	87.3	87.9	97.1	99.9
85°	60.6	59.5	61.1	69.3	69.8
87.5°	32.2	32.2	33.3	38.2	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)