

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: P293860

Luminaire Tested: **24GR-LD5-38-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A125-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3619.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

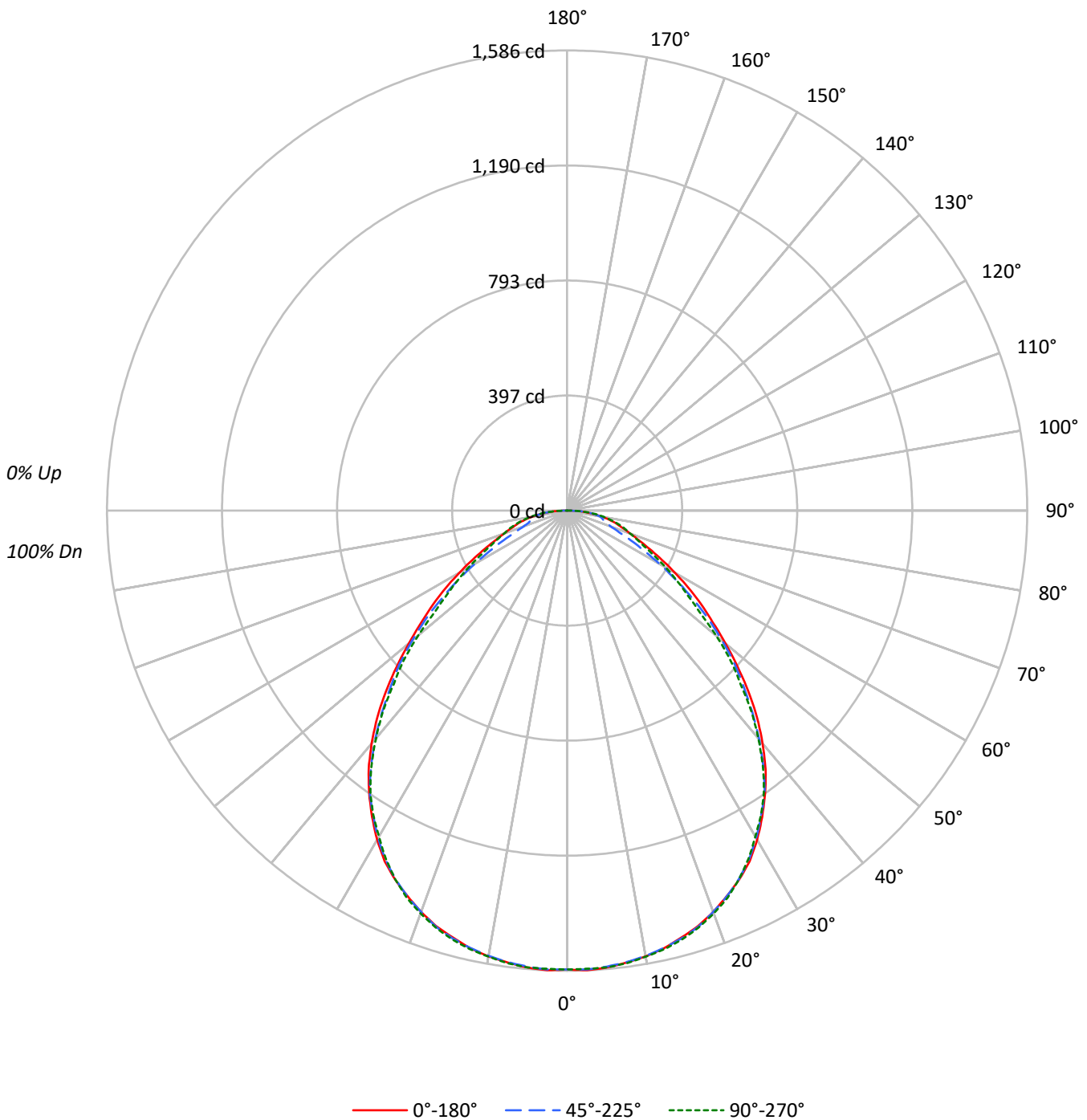
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2128	2128	2128
5°	2135	2130	2134
10°	2132	2129	2133
15°	2122	2126	2131
20°	2107	2107	2116
25°	2084	2079	2081
30°	2035	2024	2015
35°	1955	1949	1942
40°	1841	1808	1800
45°	1685	1638	1608
50°	1489	1460	1403
55°	1324	1234	1187
60°	1153	988	1059
65°	996	766	936
70°	908	626	906
75°	915	675	963
80°	954	879	1015
85°	994	1045	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	4.1
10°-20°	430.2	11.9
20°-30°	644.0	17.8
30°-40°	735.9	20.3
40°-50°	665.3	18.4
50°-60°	478.6	13.2
60°-70°	277.5	7.7
70°-80°	164.6	4.5
80°-90°	72.9	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°	1224.2	33.8
0°-40°	1960.1	54.2
0°-60°	3104.0	85.8
0°-90°	3619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1581	1579	1577	1575	1580	150
15°	1523	1526	1526	1524	1530	430
25°	1404	1402	1401	1398	1402	645
35°	1190	1184	1187	1172	1182	742
45°	885	870	861	853	845	680
55°	565	554	526	513	506	505
65°	313	278	240	269	294	316
75°	176	147	130	160	185	186
85°	64	69	68	78	73	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1585.9	1580.2	1583.1	1581.4	1580.8
5°	1580.8	1578.6	1577.4	1575.2	1580.2
7.5°	1570.7	1569.0	1569.5	1570.1	1573.5
10°	1560.5	1557.7	1558.2	1559.4	1561.1
12.5°	1544.7	1543.0	1543.6	1544.7	1548.6
15°	1523.2	1526.0	1526.0	1524.4	1530.0
17.5°	1501.8	1501.2	1504.0	1498.9	1506.9
20°	1471.8	1472.4	1471.8	1472.4	1477.5
22.5°	1438.0	1440.8	1439.1	1439.1	1444.7
25°	1403.5	1401.8	1400.7	1397.9	1401.8
27.5°	1362.3	1358.9	1356.1	1350.5	1353.3
30°	1309.8	1310.4	1303.0	1298.0	1296.8
32.5°	1251.1	1251.1	1244.3	1240.4	1243.8
35°	1190.1	1184.5	1186.7	1172.1	1182.2
37.5°	1124.1	1115.0	1110.0	1104.9	1108.3
40°	1048.4	1036.6	1029.2	1019.1	1024.7
42.5°	968.8	954.1	945.1	937.8	940.0
45°	885.3	870.0	861.0	853.1	845.2
47.5°	797.2	787.6	783.1	772.9	763.9
50°	711.4	708.0	697.3	688.8	670.2
52.5°	632.9	630.1	613.1	599.0	575.3
55°	564.6	553.8	526.2	512.6	505.9
57.5°	495.1	477.6	444.3	442.6	447.1
60°	428.5	407.1	367.0	376.0	393.5
62.5°	368.1	335.9	297.5	319.0	339.9
65°	312.8	277.8	240.5	268.7	294.1
67.5°	267.0	232.0	193.6	231.5	260.8
70°	230.9	195.3	159.2	202.7	230.3
72.5°	201.0	168.8	138.9	180.1	208.9
75°	176.1	147.4	129.9	160.3	185.2
77.5°	151.3	128.2	124.2	142.8	158.1
80°	123.1	112.4	113.5	125.3	131.0
82.5°	92.0	92.6	95.4	105.0	102.8
85°	64.4	69.4	67.7	77.9	72.8
87.5°	35.6	39.0	36.7	44.6	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)