

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: P293893

Luminaire Tested: **24GR-LD5-64-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293893
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-LD5-64-A125-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5662.0 lumens
Efficiency: N/A
Efficacy: 121.8 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

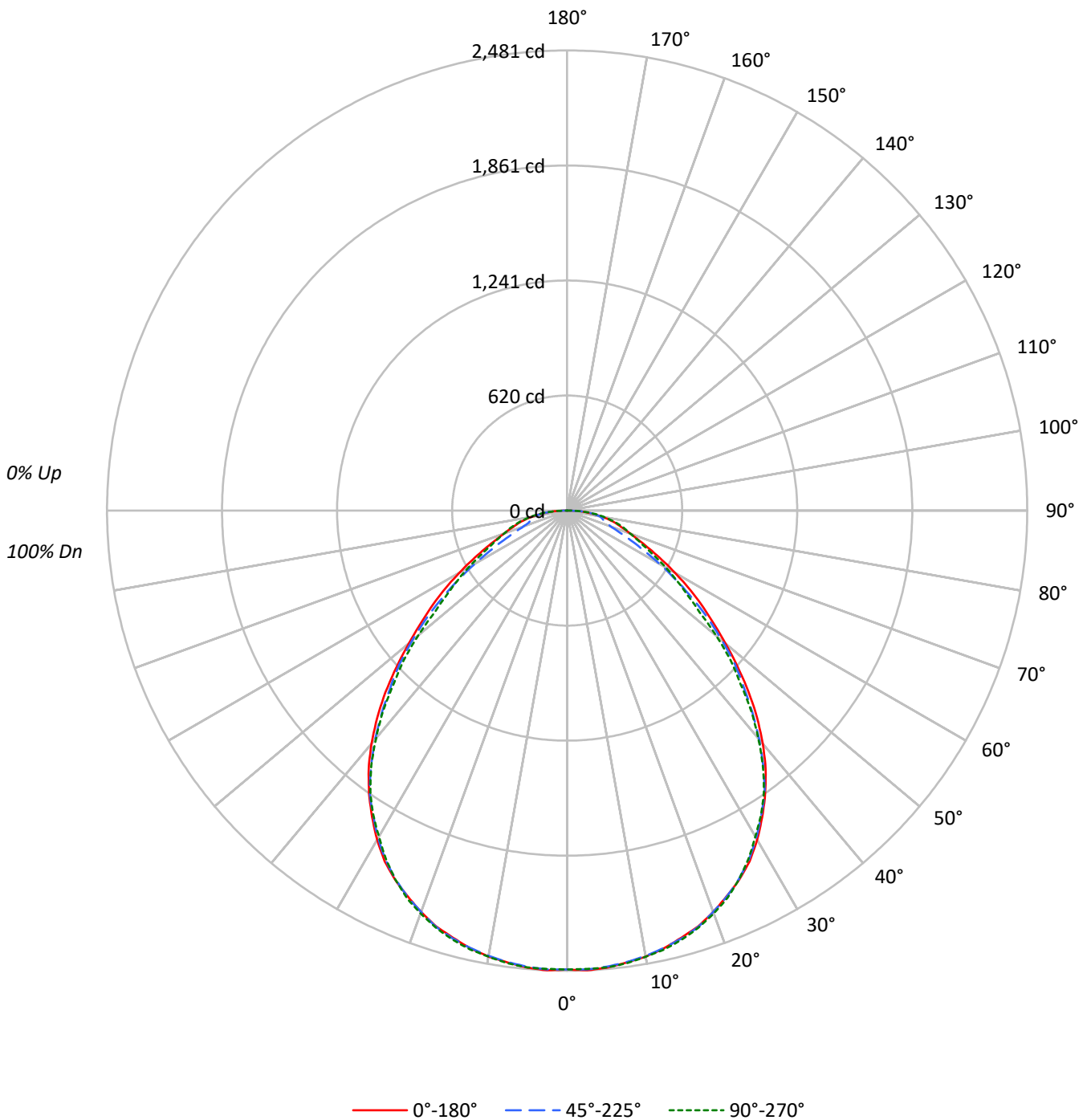
Input Watts (W): 46.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3329	3329	3329
5°	3340	3333	3339
10°	3336	3331	3337
15°	3320	3326	3334
20°	3297	3297	3310
25°	3260	3253	3256
30°	3184	3167	3152
35°	3058	3050	3038
40°	2881	2828	2816
45°	2635	2563	2516
50°	2330	2283	2195
55°	2072	1931	1856
60°	1804	1545	1657
65°	1558	1198	1465
70°	1421	980	1418
75°	1433	1056	1506
80°	1492	1375	1588
85°	1555	1636	1758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	4.1
10°-20°	673.1	11.9
20°-30°	1007.5	17.8
30°-40°	1151.3	20.3
40°-50°	1040.9	18.4
50°-60°	748.8	13.2
60°-70°	434.1	7.7
70°-80°	257.5	4.5
80°-90°	114.1	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°	1915.3	33.8
0°-40°	3066.6	54.2
0°-60°	4856.3	85.8
0°-90°	5662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2474	2474	2474	2474	2474	
5°	2473	2470	2468	2464	2472	235
15°	2383	2388	2388	2385	2394	673
25°	2196	2193	2191	2187	2193	1010
35°	1862	1853	1857	1834	1850	1161
45°	1385	1361	1347	1335	1322	1064
55°	883	866	823	802	791	790
65°	489	435	376	420	460	494
75°	276	230	203	251	290	291
85°	101	109	106	122	114	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2474.1	2474.1	2474.1	2474.1	2474.1
2.5°	2481.2	2472.3	2476.7	2474.1	2473.2
5°	2473.2	2469.7	2467.9	2464.4	2472.3
7.5°	2457.3	2454.7	2455.5	2456.4	2461.7
10°	2441.4	2437.0	2437.9	2439.6	2442.3
12.5°	2416.7	2414.0	2414.9	2416.7	2422.9
15°	2383.1	2387.5	2387.5	2384.9	2393.7
17.5°	2349.6	2348.7	2353.1	2345.1	2357.5
20°	2302.7	2303.6	2302.7	2303.6	2311.6
22.5°	2249.7	2254.2	2251.5	2251.5	2260.3
25°	2195.9	2193.2	2191.4	2187.0	2193.2
27.5°	2131.4	2126.1	2121.7	2112.8	2117.2
30°	2049.2	2050.1	2038.6	2030.7	2028.9
32.5°	1957.4	1957.4	1946.8	1940.6	1945.9
35°	1862.0	1853.1	1856.7	1833.7	1849.6
37.5°	1758.6	1744.5	1736.5	1728.6	1733.9
40°	1640.3	1621.7	1610.2	1594.3	1603.2
42.5°	1515.7	1492.8	1478.6	1467.1	1470.7
45°	1385.0	1361.2	1347.0	1334.7	1322.3
47.5°	1247.2	1232.2	1225.1	1209.2	1195.1
50°	1112.9	1107.6	1090.9	1077.6	1048.5
52.5°	990.2	985.8	959.3	937.2	900.1
55°	883.3	866.5	823.2	802.0	791.4
57.5°	774.6	747.3	695.1	692.5	699.6
60°	670.4	636.9	574.1	588.3	615.7
62.5°	575.9	525.6	465.5	499.1	531.7
65°	489.3	434.6	376.3	420.4	460.2
67.5°	417.8	363.0	303.0	362.1	408.1
70°	361.3	305.6	249.1	317.1	360.4
72.5°	314.5	264.1	217.3	281.8	326.8
75°	275.6	230.5	203.2	250.9	289.7
77.5°	236.7	200.5	194.3	223.5	247.3
80°	192.6	175.8	177.5	196.1	204.9
82.5°	144.0	144.9	149.3	164.3	160.8
85°	100.7	108.6	106.0	121.9	113.9
87.5°	55.6	60.9	57.4	69.8	62.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)