

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: P293318

Luminaire Tested: **24GR-LD5-64-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293318
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-LD5-64-F125-UNV-L93050-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: 5439.0 lumens
Efficiency: N/A
Efficacy: 116.2 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

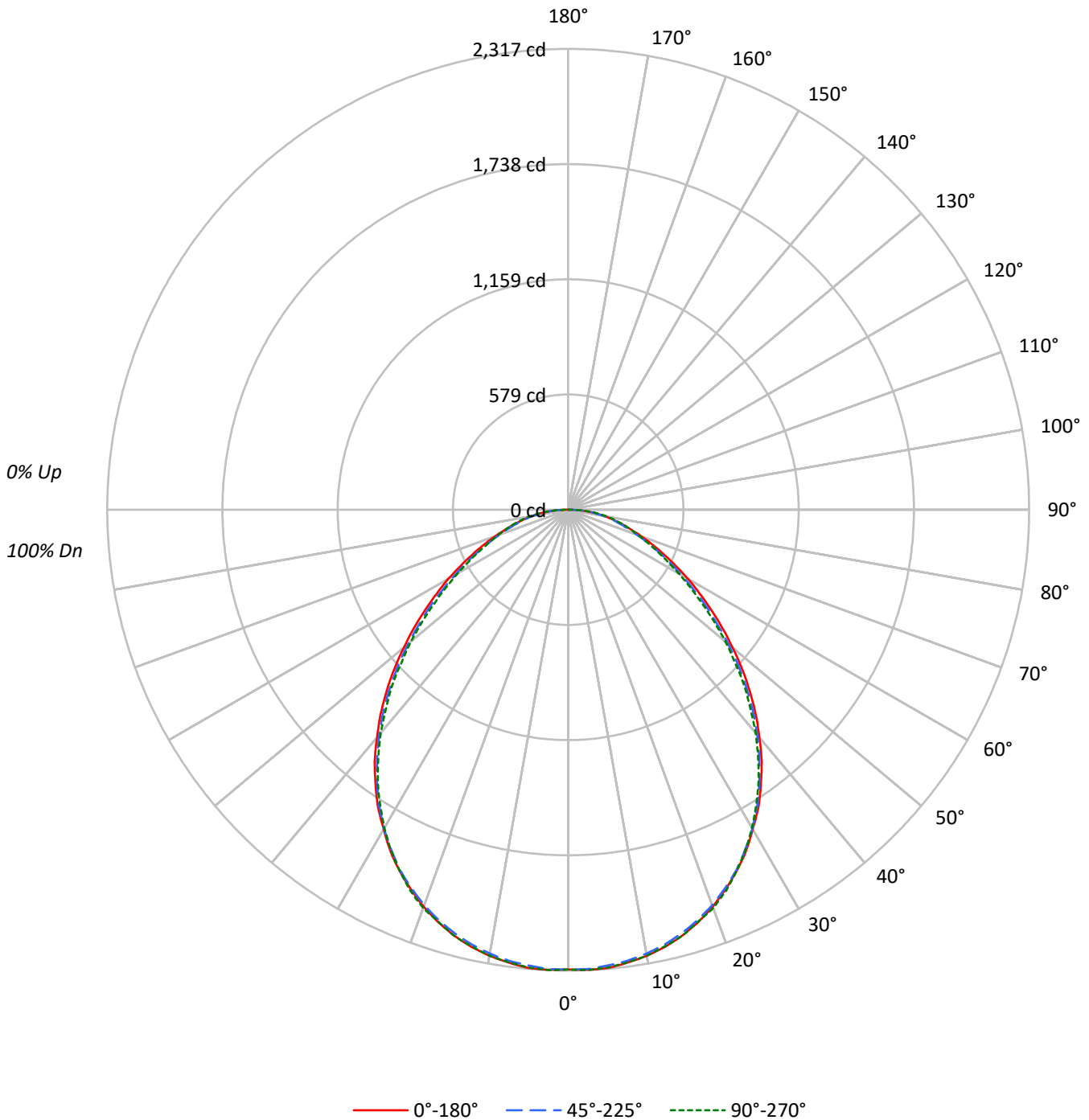
Input Watts (W): 46.814898
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3110	3110	3110
5°	3124	3107	3120
10°	3112	3097	3111
15°	3087	3071	3090
20°	3042	3030	3052
25°	2976	2969	2975
30°	2882	2877	2870
35°	2773	2752	2741
40°	2625	2595	2574
45°	2456	2410	2381
50°	2256	2196	2159
55°	2058	1982	1924
60°	1869	1769	1723
65°	1684	1589	1562
70°	1542	1441	1482
75°	1441	1375	1476
80°	1430	1403	1541
85°	1457	1470	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	4.0
10°-20°	622.0	11.4
20°-30°	918.8	16.9
30°-40°	1044.6	19.2
40°-50°	975.5	17.9
50°-60°	758.7	13.9
60°-70°	503.4	9.3
70°-80°	291.3	5.4
80°-90°	105.9	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°	1759.6	32.4
0°-40°	2804.2	51.6
0°-60°	4538.4	83.4
0°-90°	5439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2312	2312	2312	2312	2312	
5°	2313	2301	2300	2305	2310	220
15°	2216	2205	2204	2204	2218	624
25°	2005	1996	2000	1995	2004	922
35°	1688	1680	1676	1664	1669	1054
45°	1290	1280	1267	1251	1251	994
55°	877	865	845	823	820	787
65°	529	513	499	490	490	528
75°	277	270	264	276	284	296
85°	94	93	95	108	109	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2311.6	2311.6	2311.6	2311.6	2311.6
2.5°	2315.0	2308.2	2311.6	2309.0	2316.7
5°	2313.3	2301.4	2300.5	2304.8	2309.9
7.5°	2297.1	2284.4	2286.9	2286.9	2295.4
10°	2277.6	2264.8	2266.5	2267.4	2276.7
12.5°	2251.2	2238.5	2239.3	2238.5	2247.8
15°	2216.4	2205.3	2204.5	2203.6	2218.1
17.5°	2173.8	2158.5	2163.6	2164.5	2172.1
20°	2124.5	2112.6	2116.0	2115.2	2131.3
22.5°	2065.9	2057.4	2059.9	2058.2	2073.5
25°	2004.7	1996.2	1999.6	1995.3	2003.8
27.5°	1935.8	1929.9	1926.5	1923.9	1929.9
30°	1855.0	1851.6	1851.6	1840.6	1847.4
32.5°	1778.5	1767.5	1767.5	1763.2	1759.0
35°	1688.4	1679.9	1675.7	1663.8	1668.9
37.5°	1598.3	1578.7	1577.0	1567.7	1567.7
40°	1494.6	1483.5	1477.6	1467.4	1465.7
42.5°	1396.0	1384.9	1374.7	1357.7	1354.3
45°	1290.5	1280.3	1266.7	1250.6	1251.4
47.5°	1186.0	1171.5	1158.8	1139.2	1136.7
50°	1078.0	1067.8	1049.1	1032.1	1031.2
52.5°	976.8	960.7	943.7	923.3	923.3
55°	877.4	864.6	845.1	823.0	820.4
57.5°	782.1	770.2	748.1	732.0	727.7
60°	694.6	677.6	657.2	643.6	640.2
62.5°	607.0	591.7	576.4	562.8	562.0
65°	528.8	512.6	499.0	489.7	490.5
67.5°	458.2	444.6	429.3	426.8	427.6
70°	391.9	377.5	366.4	372.4	376.6
72.5°	329.0	321.4	313.7	322.2	328.2
75°	277.2	270.3	264.4	276.3	284.0
77.5°	229.5	224.4	223.6	233.8	240.6
80°	184.5	178.5	181.1	193.0	198.9
82.5°	140.3	136.0	136.9	151.3	155.6
85°	94.4	92.7	95.2	108.0	108.8
87.5°	50.2	50.2	51.9	59.5	57.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)