

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: P293183

Luminaire Tested: **24GR-LD5-48-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293183
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-LD5-48-F125-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5091.0 lumens
Efficiency: N/A
Efficacy: 151.6 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

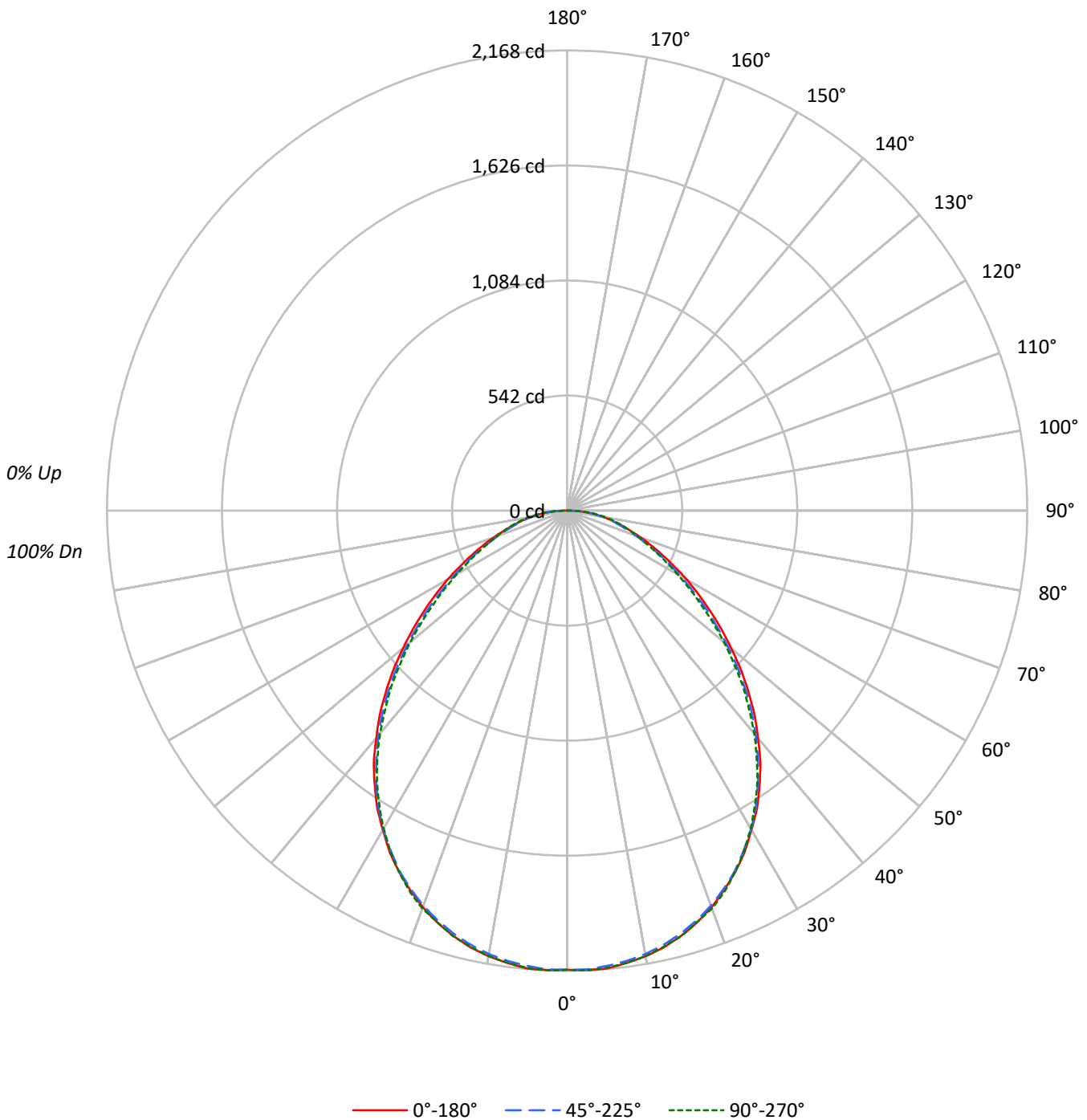
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	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°	2911	2911	2911
5°	2925	2908	2920
10°	2913	2898	2911
15°	2890	2874	2892
20°	2847	2836	2857
25°	2786	2779	2784
30°	2698	2693	2687
35°	2596	2576	2566
40°	2457	2429	2410
45°	2299	2256	2229
50°	2112	2056	2021
55°	1926	1856	1801
60°	1749	1655	1612
65°	1576	1487	1462
70°	1443	1349	1387
75°	1349	1287	1382
80°	1338	1313	1443
85°	1363	1376	1573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	4.0
10°-20°	582.2	11.4
20°-30°	860.0	16.9
30°-40°	977.8	19.2
40°-50°	913.1	17.9
50°-60°	710.1	13.9
60°-70°	471.2	9.3
70°-80°	272.7	5.4
80°-90°	99.1	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°	1647.0	32.4
0°-40°	2624.8	51.6
0°-60°	4248.0	83.4
0°-90°	5091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2164	2164	2164	2164	2164	
5°	2165	2154	2153	2157	2162	205
15°	2074	2064	2063	2063	2076	584
25°	1876	1868	1872	1868	1876	863
35°	1580	1572	1568	1557	1562	987
45°	1208	1198	1186	1171	1171	931
55°	821	809	791	770	768	736
65°	495	480	467	458	459	495
75°	259	253	248	259	266	278
85°	88	87	89	101	102	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2163.7	2163.7	2163.7	2163.7	2163.7
2.5°	2166.9	2160.5	2163.7	2161.3	2168.4
5°	2165.3	2154.1	2153.3	2157.3	2162.1
7.5°	2150.1	2138.2	2140.6	2140.6	2148.6
10°	2131.8	2119.9	2121.5	2122.3	2131.0
12.5°	2107.2	2095.2	2096.0	2095.2	2104.0
15°	2074.5	2064.2	2063.4	2062.6	2076.1
17.5°	2034.8	2020.4	2025.2	2026.0	2033.2
20°	1988.6	1977.5	1980.6	1979.9	1995.0
22.5°	1933.7	1925.7	1928.1	1926.5	1940.9
25°	1876.4	1868.4	1871.6	1867.7	1875.6
27.5°	1811.9	1806.4	1803.2	1800.8	1806.4
30°	1736.4	1733.2	1733.2	1722.8	1729.2
32.5°	1664.7	1654.4	1654.4	1650.4	1646.4
35°	1580.4	1572.4	1568.4	1557.3	1562.1
37.5°	1496.0	1477.7	1476.1	1467.4	1467.4
40°	1398.9	1388.6	1383.0	1373.5	1371.9
42.5°	1306.6	1296.3	1286.7	1270.8	1267.6
45°	1208.0	1198.4	1185.7	1170.6	1171.4
47.5°	1110.1	1096.6	1084.6	1066.3	1063.9
50°	1009.0	999.5	982.0	966.1	965.3
52.5°	914.3	899.2	883.3	864.2	864.2
55°	821.2	809.3	791.0	770.3	767.9
57.5°	732.1	721.0	700.3	685.2	681.2
60°	650.1	634.2	615.1	602.4	599.2
62.5°	568.2	553.8	539.5	526.8	526.0
65°	495.0	479.8	467.1	458.4	459.2
67.5°	428.9	416.2	401.9	399.5	400.3
70°	366.8	353.3	343.0	348.5	352.5
72.5°	308.0	300.8	293.6	301.6	307.2
75°	259.4	253.1	247.5	258.6	265.8
77.5°	214.9	210.1	209.3	218.8	225.2
80°	172.7	167.1	169.5	180.6	186.2
82.5°	131.3	127.3	128.1	141.6	145.6
85°	88.3	86.7	89.1	101.1	101.9
87.5°	46.9	46.9	48.5	55.7	53.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)