

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: P293374

Luminaire Tested: **24GR-LD5-48-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293374
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-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4552.0 lumens
Efficiency: N/A
Efficacy: 134.8 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

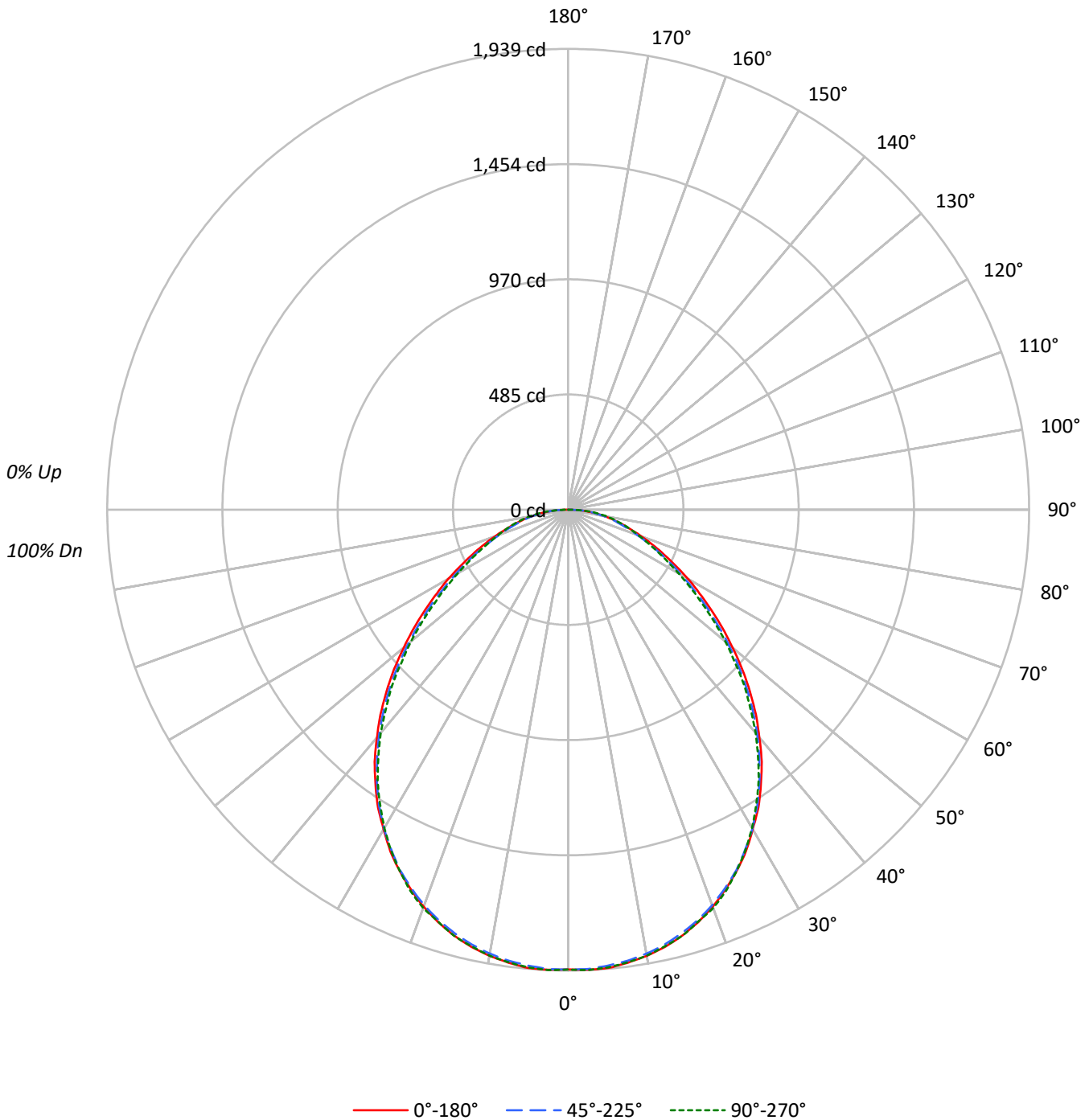
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2603	2603	2603
5°	2615	2600	2611
10°	2604	2592	2603
15°	2584	2570	2586
20°	2546	2536	2554
25°	2491	2484	2490
30°	2412	2408	2402
35°	2321	2303	2294
40°	2197	2172	2154
45°	2055	2017	1993
50°	1888	1838	1807
55°	1723	1659	1611
60°	1564	1480	1442
65°	1409	1330	1307
70°	1290	1207	1240
75°	1206	1150	1235
80°	1196	1175	1290
85°	1220	1230	1406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	4.0
10°-20°	520.5	11.4
20°-30°	769.0	16.9
30°-40°	874.3	19.2
40°-50°	816.4	17.9
50°-60°	634.9	13.9
60°-70°	421.3	9.3
70°-80°	243.8	5.4
80°-90°	88.7	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°	1472.6	32.4
0°-40°	2346.9	51.6
0°-60°	3798.3	83.4
0°-90°	4552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4552.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1936	1926	1925	1929	1933	184
15°	1855	1846	1845	1844	1856	523
25°	1678	1671	1674	1670	1677	771
35°	1413	1406	1402	1392	1397	882
45°	1080	1072	1060	1047	1047	832
55°	734	724	707	689	687	658
65°	443	429	418	410	410	442
75°	232	226	221	231	238	248
85°	79	78	80	90	91	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1934.6	1934.6	1934.6	1934.6	1934.6
2.5°	1937.4	1931.8	1934.6	1932.5	1938.9
5°	1936.0	1926.1	1925.3	1928.9	1933.2
7.5°	1922.5	1911.8	1914.0	1914.0	1921.1
10°	1906.1	1895.5	1896.9	1897.6	1905.4
12.5°	1884.1	1873.4	1874.1	1873.4	1881.2
15°	1854.9	1845.7	1844.9	1844.2	1856.3
17.5°	1819.3	1806.5	1810.8	1811.5	1817.9
20°	1778.1	1768.1	1771.0	1770.2	1783.8
22.5°	1729.0	1721.9	1724.0	1722.6	1735.4
25°	1677.7	1670.6	1673.5	1669.9	1677.0
27.5°	1620.1	1615.1	1612.3	1610.2	1615.1
30°	1552.5	1549.7	1549.7	1540.4	1546.1
32.5°	1488.5	1479.2	1479.2	1475.7	1472.1
35°	1413.1	1405.9	1402.4	1392.4	1396.7
37.5°	1337.6	1321.3	1319.9	1312.0	1312.0
40°	1250.8	1241.6	1236.6	1228.1	1226.6
42.5°	1168.3	1159.1	1150.5	1136.3	1133.4
45°	1080.1	1071.5	1060.2	1046.6	1047.3
47.5°	992.6	980.5	969.8	953.4	951.3
50°	902.2	893.7	878.0	863.8	863.1
52.5°	817.5	804.0	789.8	772.7	772.7
55°	734.3	723.6	707.2	688.7	686.6
57.5°	654.6	644.6	626.1	612.6	609.1
60°	581.3	567.1	550.0	538.6	535.8
62.5°	508.0	495.2	482.4	471.0	470.3
65°	442.6	429.0	417.7	409.8	410.5
67.5°	383.5	372.1	359.3	357.2	357.9
70°	328.0	315.9	306.7	311.6	315.2
72.5°	275.4	269.0	262.5	269.7	274.6
75°	232.0	226.3	221.3	231.2	237.6
77.5°	192.1	187.8	187.1	195.7	201.4
80°	154.4	149.4	151.6	161.5	166.5
82.5°	117.4	113.8	114.6	126.6	130.2
85°	79.0	77.6	79.7	90.4	91.1
87.5°	42.0	42.0	43.4	49.8	47.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)