

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: P293122

Luminaire Tested: **24GR-LD5-48-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 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): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

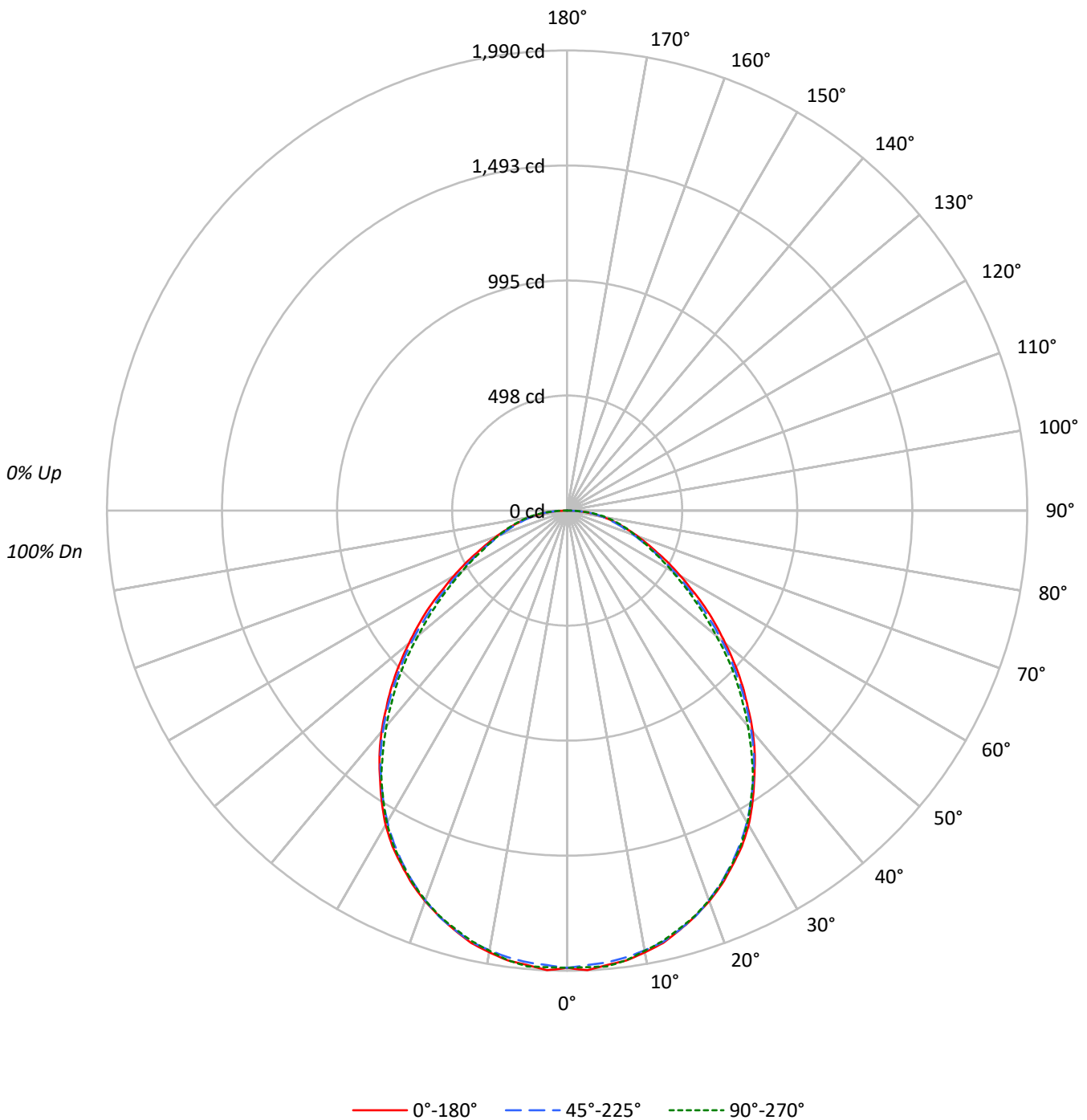
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	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	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2660	2660	2660
5°	2664	2649	2672
10°	2650	2639	2641
15°	2617	2614	2608
20°	2573	2568	2568
25°	2513	2499	2505
30°	2440	2416	2423
35°	2318	2307	2301
40°	2195	2175	2137
45°	2040	2004	1965
50°	1869	1828	1759
55°	1707	1630	1575
60°	1521	1448	1410
65°	1369	1297	1279
70°	1271	1193	1241
75°	1215	1162	1259
80°	1215	1215	1346
85°	1261	1275	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	4.1
10°-20°	528.4	11.6
20°-30°	775.6	17.0
30°-40°	876.8	19.3
40°-50°	810.4	17.8
50°-60°	624.4	13.7
60°-70°	413.4	9.1
70°-80°	246.1	5.4
80°-90°	90.2	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°	1490.7	32.7
0°-40°	2367.6	52.0
0°-60°	3802.3	83.5
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°	1977	1977	1977	1977	1977	
5°	1973	1973	1961	1962	1978	187
15°	1879	1875	1877	1876	1872	530
25°	1693	1688	1683	1682	1687	779
35°	1411	1409	1405	1398	1401	883
45°	1072	1065	1053	1035	1033	826
55°	728	713	695	676	671	649
65°	430	423	408	404	402	431
75°	234	228	224	234	242	249
85°	82	77	83	91	92	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1977.3	1977.3	1977.3	1977.3	1977.3
2.5°	1989.5	1979.2	1967.9	1967.9	1976.3
5°	1972.6	1972.6	1961.3	1962.3	1978.2
7.5°	1962.3	1956.6	1949.1	1949.1	1961.3
10°	1939.7	1935.0	1931.3	1929.4	1933.2
12.5°	1915.3	1907.8	1910.6	1907.8	1906.9
15°	1878.7	1874.9	1876.8	1875.9	1872.1
17.5°	1839.3	1837.4	1841.1	1834.6	1837.4
20°	1797.0	1791.4	1793.3	1789.5	1793.3
22.5°	1749.1	1745.4	1740.7	1736.0	1743.5
25°	1692.8	1688.1	1683.4	1681.5	1687.2
27.5°	1636.5	1629.0	1622.4	1620.5	1629.0
30°	1570.7	1562.3	1554.8	1552.9	1559.5
32.5°	1492.8	1490.9	1481.6	1477.8	1480.6
35°	1411.1	1409.3	1404.6	1398.0	1400.8
37.5°	1333.2	1332.3	1325.7	1314.4	1306.9
40°	1249.6	1243.1	1238.4	1222.4	1216.8
42.5°	1157.6	1155.8	1147.3	1129.5	1122.9
45°	1072.2	1064.7	1053.4	1034.6	1032.8
47.5°	983.9	973.6	963.3	939.8	938.9
50°	892.9	885.4	873.2	849.7	840.3
52.5°	808.4	798.0	781.1	758.6	753.9
55°	727.6	712.6	694.8	676.0	671.3
57.5°	641.3	634.7	613.1	598.1	592.4
60°	565.2	559.6	538.0	523.9	523.9
62.5°	496.7	488.2	469.4	460.1	460.1
65°	430.0	423.4	407.5	403.7	401.8
67.5°	372.7	364.3	353.0	352.1	356.8
70°	323.0	312.6	303.3	312.6	315.5
72.5°	276.0	269.5	261.0	273.2	278.8
75°	233.8	228.1	223.5	233.8	242.2
77.5°	195.3	189.7	189.7	200.9	208.4
80°	156.8	153.0	156.8	166.2	173.7
82.5°	120.2	117.4	122.1	131.4	136.1
85°	81.7	77.0	82.6	91.1	92.0
87.5°	38.5	37.6	41.3	46.9	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)