

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: P292927

Luminaire Tested: **24GR-LD5-42-F1-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292927
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-LD5-42-F1-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4444.0 lumens
Efficiency: N/A
Efficacy: 151.2 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

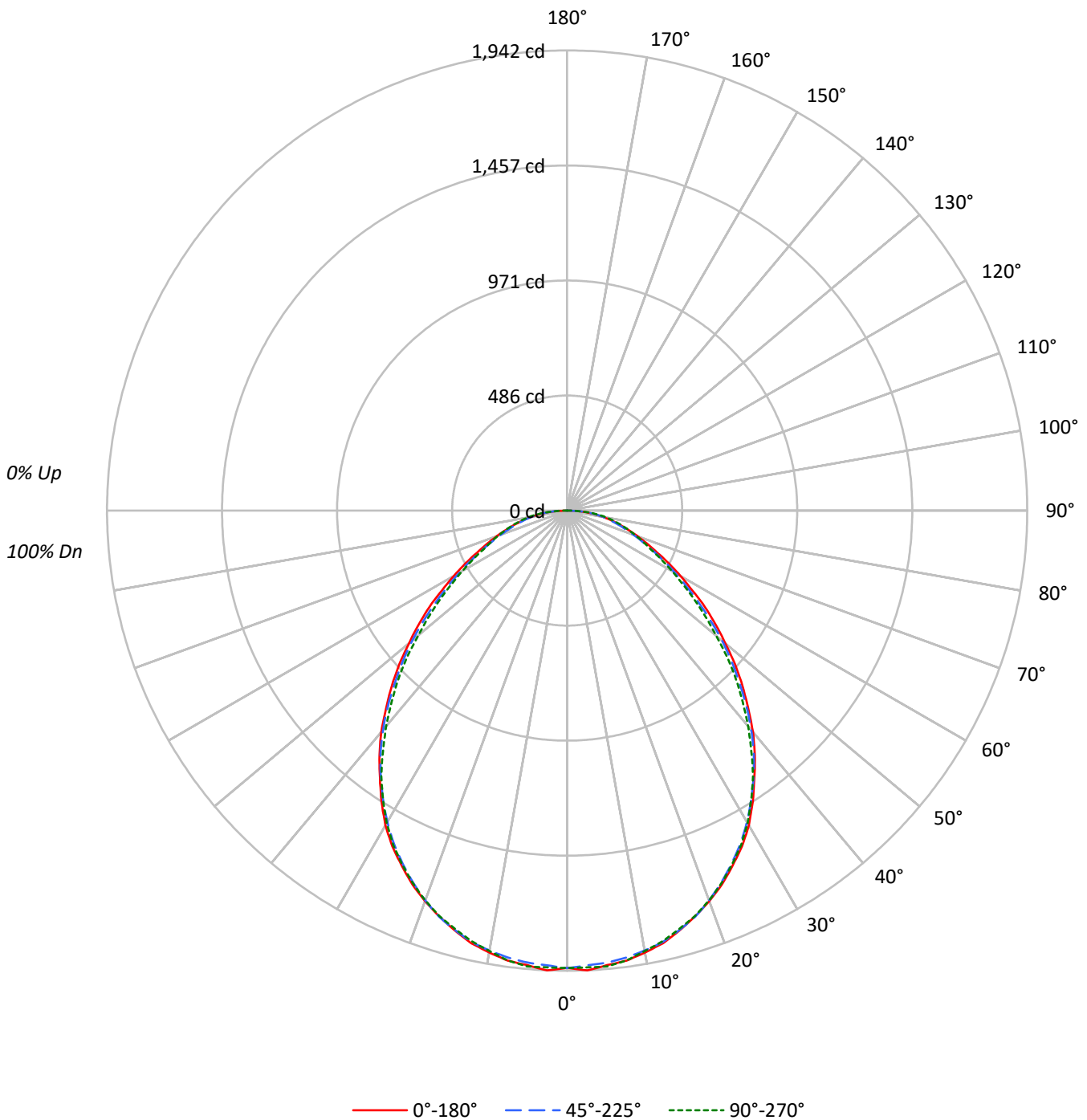
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2597	2597	2597
5°	2601	2586	2608
10°	2587	2576	2579
15°	2555	2552	2546
20°	2512	2507	2507
25°	2453	2440	2445
30°	2383	2358	2365
35°	2263	2252	2246
40°	2143	2124	2086
45°	1992	1957	1919
50°	1825	1784	1717
55°	1666	1591	1537
60°	1485	1413	1376
65°	1337	1266	1249
70°	1240	1165	1212
75°	1186	1134	1229
80°	1186	1186	1314
85°	1230	1246	1386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	4.1
10°-20°	515.9	11.6
20°-30°	757.2	17.0
30°-40°	856.0	19.3
40°-50°	791.1	17.8
50°-60°	609.5	13.7
60°-70°	403.6	9.1
70°-80°	240.3	5.4
80°-90°	88.0	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°	1455.4	32.7
0°-40°	2311.4	52.0
0°-60°	3712.1	83.5
0°-90°	4444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1930	1930	1930	1930	1930	
5°	1926	1926	1915	1916	1931	183
15°	1834	1830	1832	1831	1828	517
25°	1653	1648	1644	1642	1647	761
35°	1378	1376	1371	1365	1368	862
45°	1047	1039	1028	1010	1008	806
55°	710	696	678	660	655	634
65°	420	413	398	394	392	421
75°	228	223	218	228	236	243
85°	80	75	81	89	90	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1930.4	1930.4	1930.4	1930.4	1930.4
2.5°	1942.3	1932.2	1921.2	1921.2	1929.5
5°	1925.8	1925.8	1914.8	1915.7	1931.3
7.5°	1915.7	1910.2	1902.9	1902.9	1914.8
10°	1893.7	1889.1	1885.5	1883.6	1887.3
12.5°	1869.9	1862.5	1865.3	1862.5	1861.6
15°	1834.1	1830.5	1832.3	1831.4	1827.7
17.5°	1795.6	1793.8	1797.5	1791.0	1793.8
20°	1754.4	1748.9	1750.7	1747.0	1750.7
22.5°	1707.6	1704.0	1699.4	1694.8	1702.1
25°	1652.6	1648.1	1643.5	1641.6	1647.1
27.5°	1597.6	1590.3	1583.9	1582.1	1590.3
30°	1533.5	1525.2	1517.9	1516.1	1522.5
32.5°	1457.4	1455.6	1446.4	1442.7	1445.5
35°	1377.7	1375.8	1371.2	1364.8	1367.6
37.5°	1301.6	1300.7	1294.2	1283.2	1275.9
40°	1220.0	1213.6	1209.0	1193.4	1187.9
42.5°	1130.2	1128.3	1120.1	1102.7	1096.3
45°	1046.8	1039.4	1028.4	1010.1	1008.3
47.5°	960.6	950.5	940.4	917.5	916.6
50°	871.7	864.4	852.4	829.5	820.4
52.5°	789.2	779.1	762.6	740.6	736.0
55°	710.4	695.7	678.3	660.0	655.4
57.5°	626.0	619.6	598.5	583.9	578.4
60°	551.8	546.3	525.2	511.5	511.5
62.5°	484.9	476.6	458.3	449.1	449.1
65°	419.8	413.4	397.8	394.1	392.3
67.5°	363.9	355.6	344.6	343.7	348.3
70°	315.3	305.2	296.1	305.2	308.0
72.5°	269.5	263.1	254.8	266.7	272.2
75°	228.2	222.7	218.2	228.2	236.5
77.5°	190.7	185.2	185.2	196.2	203.5
80°	153.1	149.4	153.1	162.2	169.6
82.5°	117.3	114.6	119.2	128.3	132.9
85°	79.7	75.2	80.7	88.9	89.8
87.5°	37.6	36.7	40.3	45.8	44.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)