

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: P293359

Luminaire Tested: **24GR-LD5-42-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293359
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-LD5-42-F125-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3285.0 lumens
Efficiency: N/A
Efficacy: 117.7 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

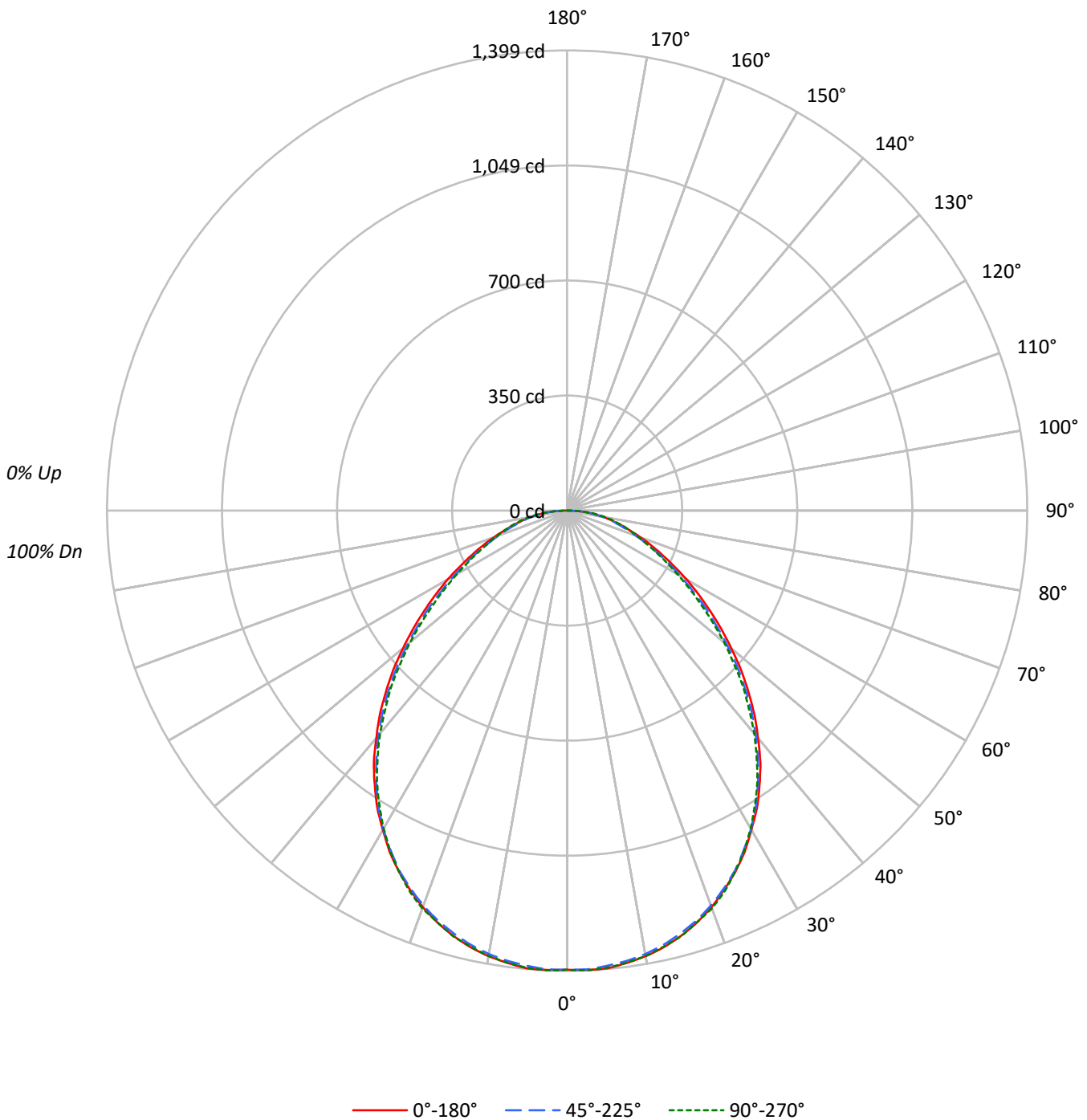
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1878	1878	1878
5°	1887	1877	1884
10°	1879	1870	1879
15°	1865	1855	1866
20°	1837	1830	1843
25°	1798	1793	1797
30°	1741	1737	1734
35°	1675	1662	1656
40°	1586	1567	1555
45°	1483	1456	1438
50°	1363	1326	1304
55°	1243	1197	1162
60°	1129	1068	1040
65°	1017	960	943
70°	931	871	895
75°	870	830	892
80°	863	848	931
85°	880	888	1014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	4.0
10°-20°	375.6	11.4
20°-30°	554.9	16.9
30°-40°	630.9	19.2
40°-50°	589.2	17.9
50°-60°	458.2	13.9
60°-70°	304.0	9.3
70°-80°	175.9	5.4
80°-90°	64.0	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°	1062.7	32.4
0°-40°	1693.6	51.6
0°-60°	2741.0	83.4
0°-90°	3285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1397	1390	1389	1392	1395	133
15°	1339	1332	1331	1331	1340	377
25°	1211	1206	1208	1205	1210	557
35°	1020	1015	1012	1005	1008	637
45°	779	773	765	755	756	601
55°	530	522	510	497	496	475
65°	319	310	301	296	296	319
75°	167	163	160	167	172	179
85°	57	56	58	65	66	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.1	1396.1	1396.1	1396.1	1396.1
2.5°	1398.2	1394.1	1396.1	1394.6	1399.2
5°	1397.2	1390.0	1389.4	1392.0	1395.1
7.5°	1387.4	1379.7	1381.2	1381.2	1386.4
10°	1375.6	1367.9	1368.9	1369.4	1375.1
12.5°	1359.7	1352.0	1352.5	1352.0	1357.6
15°	1338.6	1331.9	1331.4	1330.9	1339.6
17.5°	1312.9	1303.7	1306.8	1307.3	1311.9
20°	1283.2	1276.0	1278.0	1277.5	1287.3
22.5°	1247.7	1242.6	1244.1	1243.1	1252.4
25°	1210.8	1205.6	1207.7	1205.1	1210.2
27.5°	1169.2	1165.6	1163.5	1162.0	1165.6
30°	1120.4	1118.3	1118.3	1111.7	1115.8
32.5°	1074.2	1067.5	1067.5	1064.9	1062.4
35°	1019.8	1014.6	1012.0	1004.9	1007.9
37.5°	965.3	953.5	952.5	946.8	946.8
40°	902.7	896.0	892.4	886.2	885.2
42.5°	843.1	836.4	830.3	820.0	818.0
45°	779.4	773.3	765.1	755.3	755.8
47.5°	716.3	707.6	699.9	688.0	686.5
50°	651.1	644.9	633.6	623.4	622.8
52.5°	590.0	580.2	570.0	557.6	557.6
55°	529.9	522.2	510.4	497.0	495.5
57.5°	472.4	465.2	451.9	442.1	439.5
60°	419.5	409.2	396.9	388.7	386.6
62.5°	366.6	357.4	348.1	339.9	339.4
65°	319.4	309.6	301.4	295.8	296.3
67.5°	276.8	268.5	259.3	257.8	258.3
70°	236.7	228.0	221.3	224.9	227.5
72.5°	198.7	194.1	189.5	194.6	198.2
75°	167.4	163.3	159.7	166.9	171.5
77.5°	138.6	135.6	135.0	141.2	145.3
80°	111.4	107.8	109.4	116.6	120.2
82.5°	84.7	82.2	82.7	91.4	94.0
85°	57.0	56.0	57.5	65.2	65.7
87.5°	30.3	30.3	31.3	35.9	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)