

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: P293176

Luminaire Tested: **24GR-LD5-42-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293176
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-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3961.0 lumens
Efficiency: N/A
Efficacy: 142.0 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

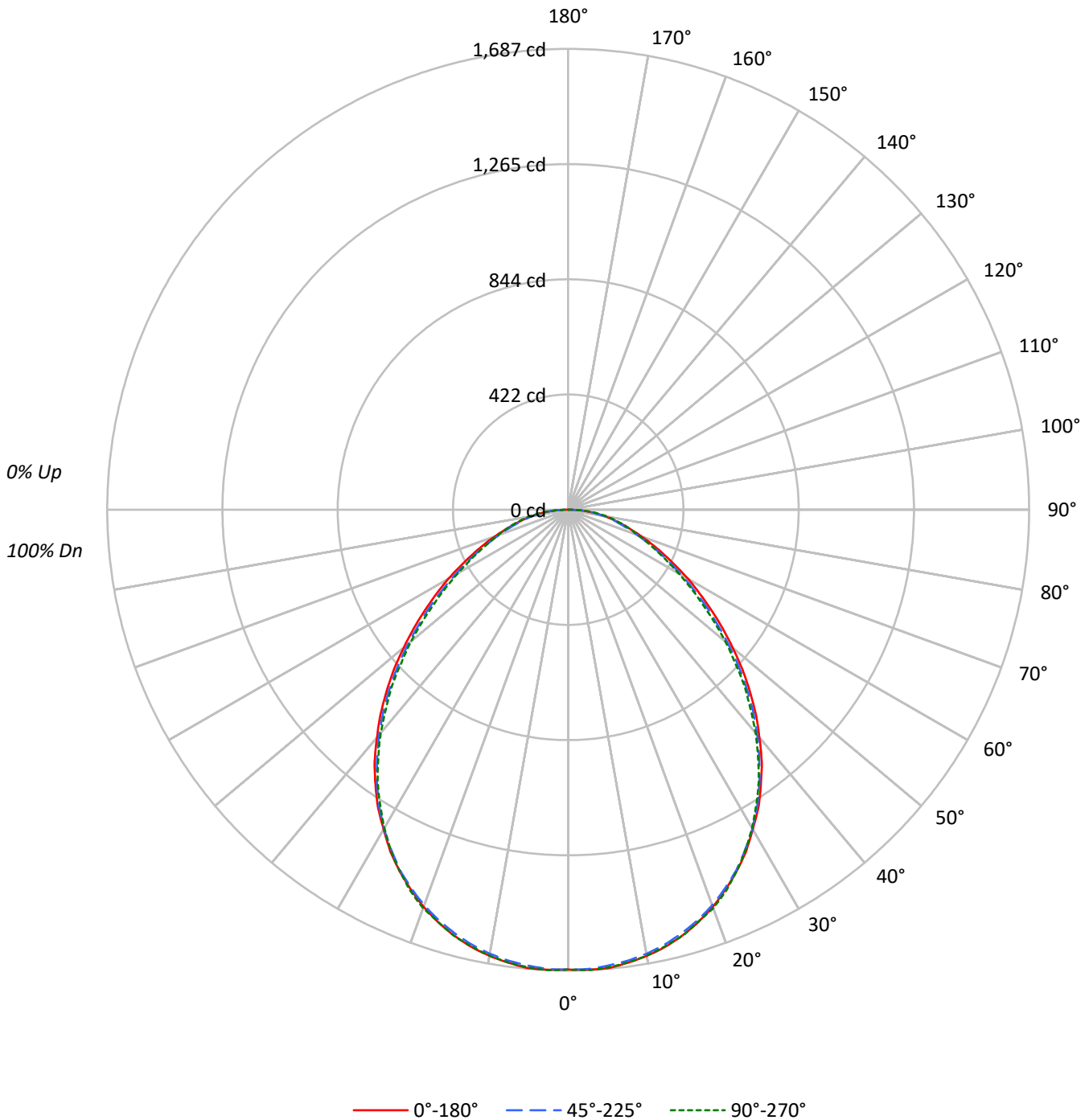
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293176

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P293176

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L83050-W2A1-U-3000K

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°	2265	2265	2265
5°	2275	2263	2272
10°	2266	2255	2265
15°	2248	2236	2250
20°	2215	2206	2223
25°	2167	2162	2166
30°	2099	2095	2090
35°	2020	2004	1996
40°	1912	1890	1875
45°	1788	1755	1734
50°	1643	1599	1572
55°	1499	1444	1402
60°	1361	1288	1255
65°	1226	1157	1137
70°	1123	1050	1079
75°	1049	1001	1075
80°	1041	1022	1123
85°	1061	1070	1223



TEST NUMBER: P293176

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	4.0
10°-20°	453.0	11.4
20°-30°	669.1	16.9
30°-40°	760.8	19.2
40°-50°	710.4	17.9
50°-60°	552.5	13.9
60°-70°	366.6	9.3
70°-80°	212.2	5.4
80°-90°	77.1	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°	1281.4	32.4
0°-40°	2042.2	51.6
0°-60°	3305.1	83.4
0°-90°	3961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1685	1676	1675	1678	1682	160
15°	1614	1606	1605	1605	1615	455
25°	1460	1454	1456	1453	1459	671
35°	1230	1223	1220	1212	1215	768
45°	940	932	922	911	911	724
55°	639	630	615	599	598	573
65°	385	373	363	357	357	385
75°	202	197	193	201	207	216
85°	69	68	69	79	79	75
90°	0	0	0	0	0	



TEST NUMBER: P293176

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.4	1683.4	1683.4	1683.4	1683.4
2.5°	1685.9	1680.9	1683.4	1681.6	1687.1
5°	1684.7	1676.0	1675.4	1678.5	1682.2
7.5°	1672.9	1663.6	1665.5	1665.5	1671.7
10°	1658.7	1649.4	1650.6	1651.2	1658.0
12.5°	1639.5	1630.2	1630.8	1630.2	1637.0
15°	1614.1	1606.0	1605.4	1604.8	1615.3
17.5°	1583.1	1572.0	1575.7	1576.3	1581.9
20°	1547.2	1538.5	1541.0	1540.4	1552.2
22.5°	1504.5	1498.3	1500.2	1498.9	1510.1
25°	1459.9	1453.7	1456.2	1453.1	1459.3
27.5°	1409.8	1405.4	1403.0	1401.1	1405.4
30°	1350.9	1348.5	1348.5	1340.4	1345.4
32.5°	1295.2	1287.2	1287.2	1284.1	1281.0
35°	1229.6	1223.4	1220.3	1211.6	1215.4
37.5°	1164.0	1149.7	1148.5	1141.7	1141.7
40°	1088.4	1080.4	1076.1	1068.6	1067.4
42.5°	1016.6	1008.6	1001.1	988.8	986.3
45°	939.8	932.4	922.5	910.7	911.4
47.5°	863.7	853.2	843.9	829.6	827.8
50°	785.1	777.6	764.0	751.6	751.0
52.5°	711.4	699.6	687.2	672.4	672.4
55°	638.9	629.7	615.4	599.3	597.5
57.5°	569.6	560.9	544.8	533.1	530.0
60°	505.8	493.4	478.6	468.7	466.2
62.5°	442.1	430.9	419.8	409.9	409.2
65°	385.1	373.3	363.4	356.6	357.2
67.5°	333.7	323.8	312.7	310.8	311.4
70°	285.4	274.9	266.8	271.2	274.3
72.5°	239.6	234.0	228.5	234.7	239.0
75°	201.8	196.9	192.6	201.2	206.8
77.5°	167.2	163.5	162.8	170.3	175.2
80°	134.4	130.0	131.9	140.5	144.9
82.5°	102.2	99.1	99.7	110.2	113.3
85°	68.7	67.5	69.3	78.6	79.2
87.5°	36.5	36.5	37.8	43.3	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)