

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: P293307

Luminaire Tested: **24GR-LD5-48-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293307
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-L93050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3773.0 lumens
Efficiency: N/A
Efficacy: 112.3 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

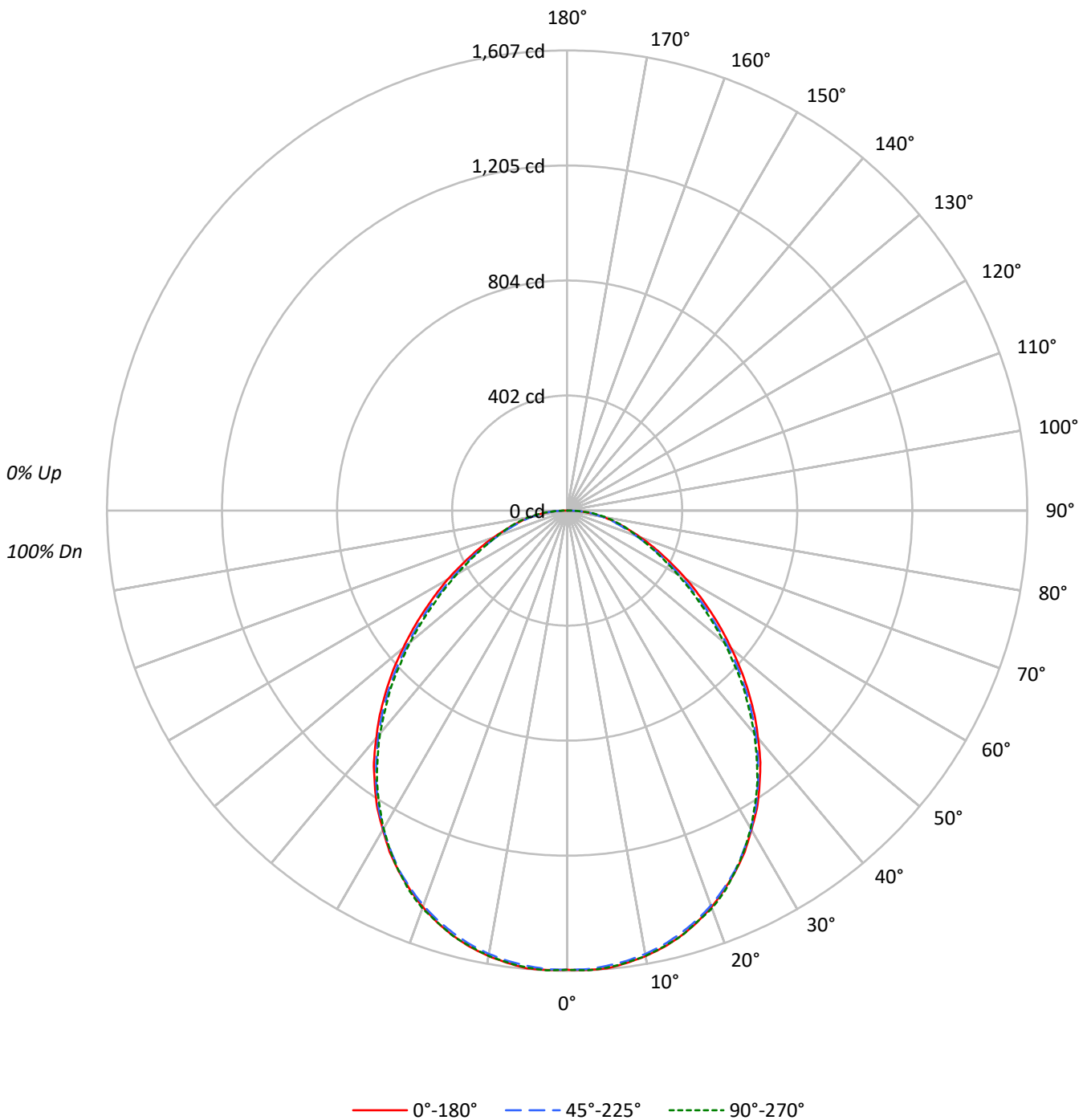
Input Watts (W): 33.584067
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293307

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P293307

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L93050-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	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°	2157	2157	2157
5°	2167	2155	2164
10°	2159	2148	2158
15°	2142	2130	2143
20°	2110	2102	2117
25°	2064	2059	2064
30°	1999	1996	1991
35°	1924	1909	1902
40°	1821	1800	1786
45°	1703	1672	1652
50°	1565	1523	1497
55°	1428	1375	1335
60°	1297	1227	1195
65°	1168	1102	1083
70°	1070	1000	1028
75°	1000	953	1024
80°	992	973	1069
85°	1011	1020	1166



TEST NUMBER: P293307

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	4.0
10°-20°	431.5	11.4
20°-30°	637.4	16.9
30°-40°	724.7	19.2
40°-50°	676.7	17.9
50°-60°	526.3	13.9
60°-70°	349.2	9.3
70°-80°	202.1	5.4
80°-90°	73.5	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°	1220.6	32.4
0°-40°	1945.3	51.6
0°-60°	3148.3	83.4
0°-90°	3773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1605	1596	1596	1599	1602	152
15°	1538	1530	1529	1529	1539	433
25°	1391	1385	1387	1384	1390	639
35°	1171	1165	1162	1154	1158	731
45°	895	888	879	868	868	690
55°	609	600	586	571	569	546
65°	367	356	346	340	340	367
75°	192	188	183	192	197	206
85°	66	64	66	75	76	71
90°	0	0	0	0	0	



TEST NUMBER: P293307

CATALOG NUMBER: 24GR-LD5-48-F125-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1603.5	1603.5	1603.5	1603.5	1603.5
2.5°	1605.9	1601.2	1603.5	1601.8	1607.1
5°	1604.7	1596.4	1595.9	1598.8	1602.3
7.5°	1593.5	1584.7	1586.4	1586.4	1592.3
10°	1579.9	1571.1	1572.3	1572.9	1579.3
12.5°	1561.7	1552.8	1553.4	1552.8	1559.3
15°	1537.5	1529.8	1529.2	1528.6	1538.7
17.5°	1508.0	1497.4	1500.9	1501.5	1506.8
20°	1473.8	1465.5	1467.9	1467.3	1478.5
22.5°	1433.1	1427.2	1429.0	1427.8	1438.4
25°	1390.6	1384.7	1387.1	1384.1	1390.0
27.5°	1342.9	1338.7	1336.4	1334.6	1338.7
30°	1286.8	1284.5	1284.5	1276.8	1281.5
32.5°	1233.8	1226.1	1226.1	1223.1	1220.2
35°	1171.2	1165.3	1162.4	1154.1	1157.7
37.5°	1108.7	1095.2	1094.0	1087.5	1087.5
40°	1036.8	1029.1	1025.0	1017.9	1016.7
42.5°	968.4	960.7	953.6	941.8	939.5
45°	895.2	888.2	878.7	867.5	868.1
47.5°	822.7	812.7	803.8	790.3	788.5
50°	747.8	740.7	727.7	716.0	715.4
52.5°	677.6	666.4	654.6	640.5	640.5
55°	608.6	599.8	586.2	570.9	569.1
57.5°	542.6	534.3	519.0	507.8	504.8
60°	481.8	470.0	455.9	446.4	444.1
62.5°	421.1	410.5	399.8	390.4	389.8
65°	366.8	355.6	346.2	339.7	340.3
67.5°	317.9	308.4	297.8	296.1	296.6
70°	271.9	261.8	254.2	258.3	261.3
72.5°	228.2	222.9	217.6	223.5	227.6
75°	192.3	187.5	183.4	191.7	197.0
77.5°	159.2	155.7	155.1	162.2	166.9
80°	128.0	123.8	125.6	133.9	138.0
82.5°	97.3	94.4	94.9	105.0	107.9
85°	65.5	64.3	66.1	74.9	75.5
87.5°	34.8	34.8	36.0	41.3	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)