

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: P293607

Luminaire Tested: **24GR-LD5-38-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3599.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

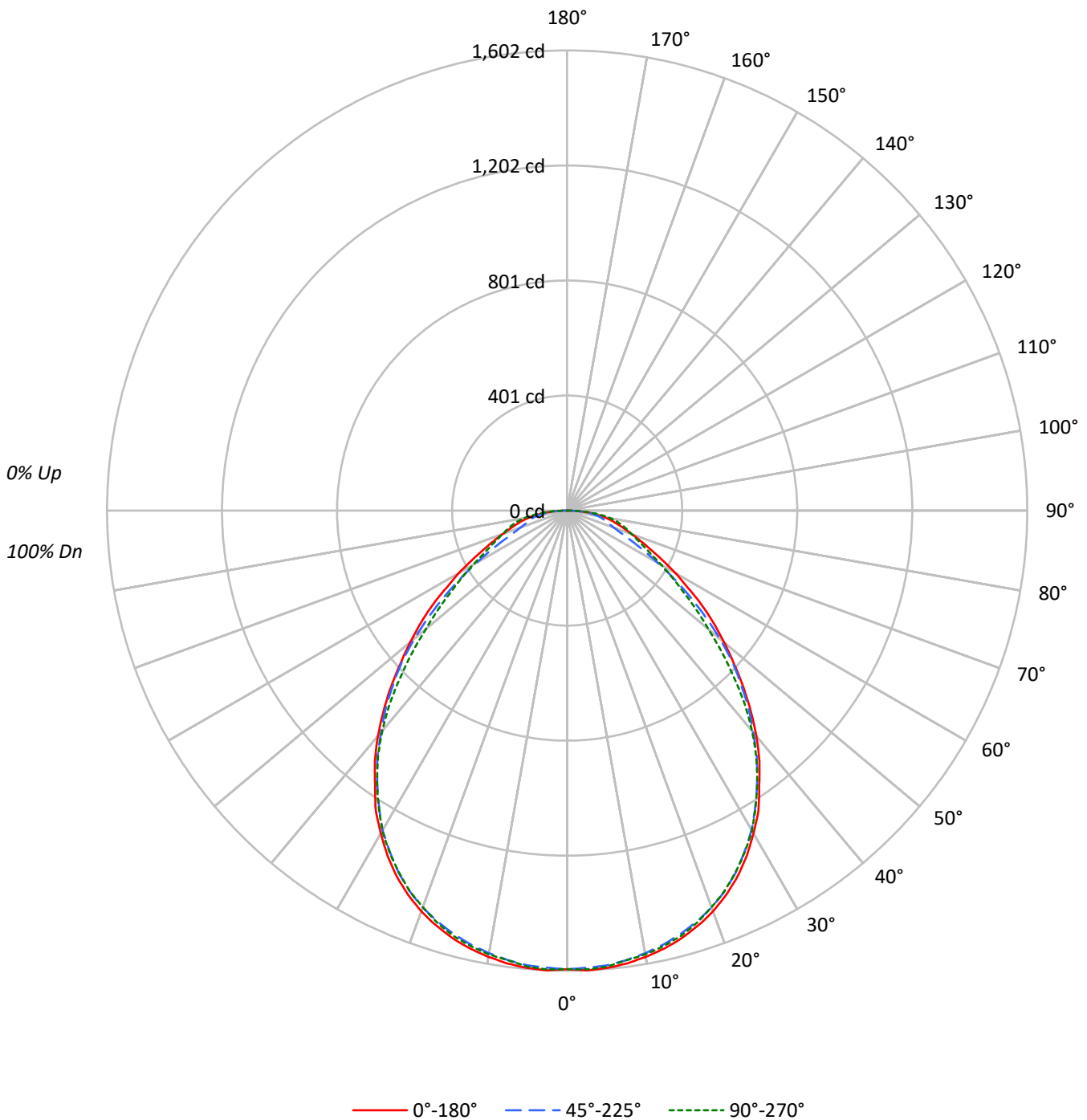
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293607

CATALOG NUMBER: 24GR-LD5-38-A-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P293607

CATALOG NUMBER: 24GR-LD5-38-A-UNV-L92765-W2A1-U-5000K

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2148	2148	2148
5°	2159	2147	2152
10°	2155	2138	2144
15°	2147	2125	2134
20°	2126	2105	2104
25°	2085	2063	2061
30°	2016	1995	2000
35°	1915	1893	1896
40°	1801	1770	1759
45°	1650	1628	1564
50°	1492	1451	1342
55°	1339	1220	1157
60°	1173	981	1017
65°	1023	772	936
70°	936	673	936
75°	936	717	1032
80°	1017	845	1176
85°	1116	953	1261



TEST NUMBER: P293607

CATALOG NUMBER: 24GR-LD5-38-A-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	4.2
10°-20°	431.5	12.0
20°-30°	639.9	17.8
30°-40°	721.9	20.1
40°-50°	653.8	18.2
50°-60°	471.7	13.1
60°-70°	281.6	7.8
70°-80°	174.1	4.8
80°-90°	73.3	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°	1222.6	34.0
0°-40°	1944.5	54.0
0°-60°	3070.0	85.3
0°-90°	3599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1598	1596	1590	1588	1594	152
15°	1541	1532	1526	1526	1532	434
25°	1404	1397	1389	1384	1388	645
35°	1166	1164	1153	1153	1154	729
45°	867	862	856	835	822	668
55°	571	553	520	494	493	510
65°	321	283	242	275	294	323
75°	180	156	138	172	198	192
85°	72	63	62	81	82	76
90°	0	0	0	0	0	



TEST NUMBER: P293607

CATALOG NUMBER: 24GR-LD5-38-A-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1602.4	1597.9	1592.4	1595.7	1598.5
5°	1598.5	1596.3	1589.6	1587.9	1593.5
7.5°	1590.2	1584.6	1578.5	1581.3	1579.0
10°	1577.4	1572.4	1564.6	1565.1	1569.0
12.5°	1561.8	1555.7	1547.4	1549.6	1552.9
15°	1541.2	1531.8	1525.7	1526.2	1532.3
17.5°	1515.1	1507.9	1500.1	1501.8	1504.5
20°	1485.1	1481.2	1470.1	1466.7	1469.5
22.5°	1447.3	1440.0	1433.9	1432.3	1432.8
25°	1404.5	1396.7	1389.4	1384.4	1388.3
27.5°	1354.4	1347.7	1338.3	1336.6	1340.0
30°	1297.7	1292.7	1284.4	1282.1	1287.1
32.5°	1239.9	1231.5	1219.9	1219.9	1221.0
35°	1165.9	1164.3	1152.6	1153.1	1154.3
37.5°	1099.2	1091.4	1084.8	1078.1	1081.4
40°	1025.3	1016.4	1007.5	1003.0	1001.4
42.5°	945.8	939.1	935.2	919.1	915.2
45°	867.4	861.8	855.7	834.6	821.8
47.5°	787.3	786.2	781.2	743.9	731.1
50°	712.8	711.1	693.3	653.9	641.1
52.5°	642.2	631.1	607.7	568.8	566.6
55°	571.0	553.2	519.9	494.3	493.2
57.5°	496.0	474.8	440.9	427.0	434.2
60°	435.9	403.7	364.7	366.4	378.1
62.5°	373.6	337.5	299.1	315.8	329.7
65°	321.4	283.0	242.4	275.2	294.1
67.5°	275.8	240.2	201.3	245.2	263.5
70°	238.0	209.1	171.2	217.4	238.0
72.5°	207.9	181.3	151.8	195.2	219.1
75°	180.1	156.2	137.9	171.8	198.5
77.5°	156.2	132.9	124.5	151.8	177.9
80°	131.2	110.1	109.0	132.3	151.8
82.5°	102.3	87.8	87.8	110.6	122.3
85°	72.3	63.4	61.7	80.6	81.7
87.5°	37.3	35.6	32.2	42.3	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)