

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: P293629

Luminaire Tested: **24GR-LD5-56-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293629
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-LD5-56-A-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4467.0 lumens
Efficiency: N/A
Efficacy: 114.9 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

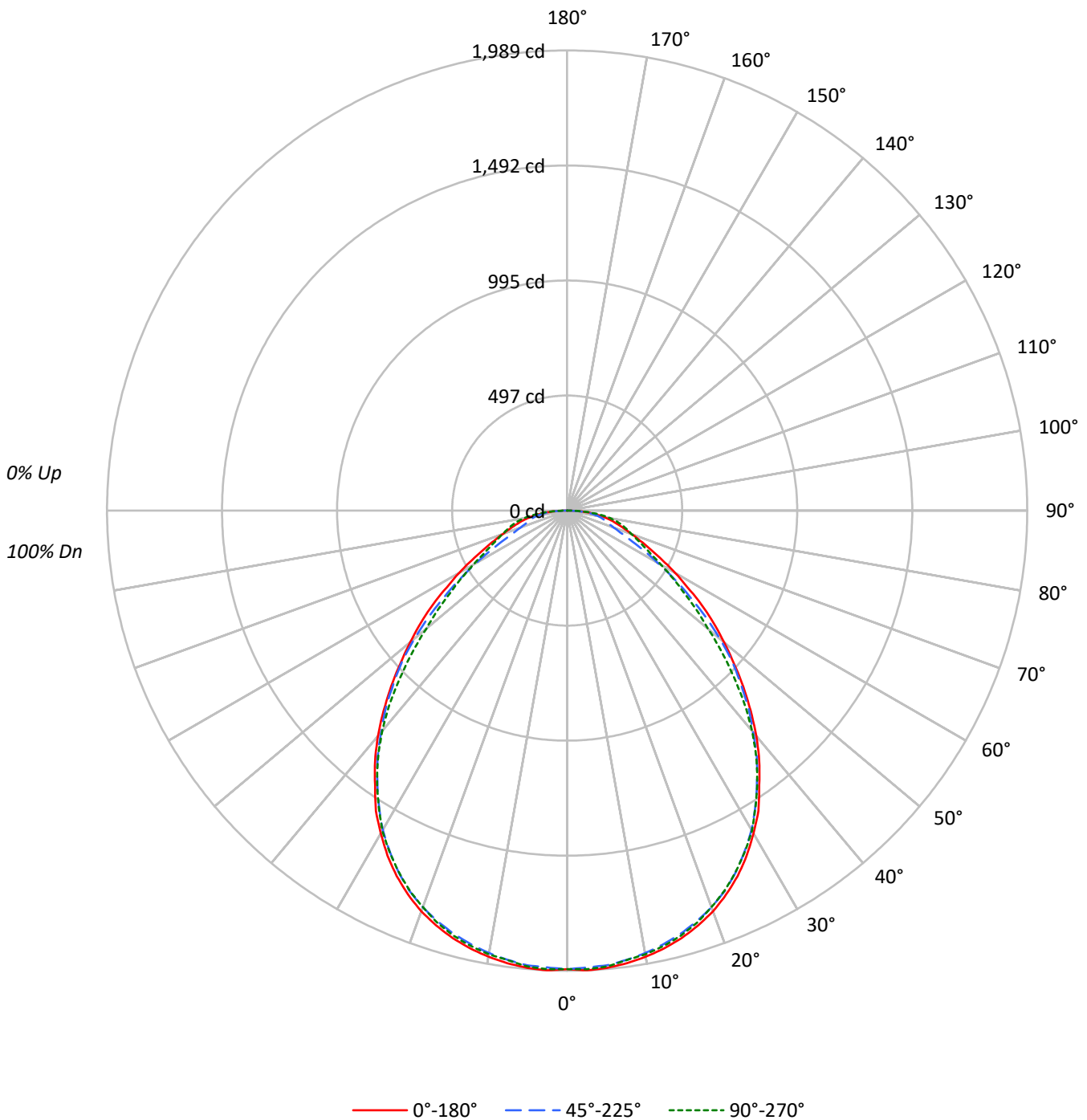
Input Watts (W): 38.874
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293629

CATALOG NUMBER: 24GR-LD5-56-A-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P293629

CATALOG NUMBER: 24GR-LD5-56-A-UNV-L92765-W2A1-U-2700K

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	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°	2667	2667	2667
5°	2680	2665	2671
10°	2675	2653	2661
15°	2665	2638	2649
20°	2639	2613	2612
25°	2588	2560	2558
30°	2502	2477	2482
35°	2377	2350	2353
40°	2235	2196	2183
45°	2048	2021	1941
50°	1852	1801	1666
55°	1662	1514	1436
60°	1456	1218	1263
65°	1270	958	1162
70°	1162	836	1162
75°	1162	889	1281
80°	1262	1048	1460
85°	1385	1183	1565



TEST NUMBER: P293629

CATALOG NUMBER: 24GR-LD5-56-A-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	4.2
10°-20°	535.6	12.0
20°-30°	794.2	17.8
30°-40°	896.0	20.1
40°-50°	811.5	18.2
50°-60°	585.4	13.1
60°-70°	349.6	7.8
70°-80°	216.0	4.8
80°-90°	91.0	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°	1517.5	34.0
0°-40°	2413.5	54.0
0°-60°	3810.4	85.3
0°-90°	4467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1982	1982	1982	1982	1982	
5°	1984	1981	1973	1971	1978	189
15°	1913	1901	1894	1894	1902	539
25°	1743	1734	1725	1718	1723	801
35°	1447	1445	1431	1431	1433	905
45°	1076	1070	1062	1036	1020	830
55°	709	687	645	614	612	633
65°	399	351	301	342	365	401
75°	224	194	171	213	246	239
85°	90	79	77	100	101	94
90°	0	0	0	0	0	



TEST NUMBER: P293629

CATALOG NUMBER: 24GR-LD5-56-A-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1982.0	1982.0	1982.0	1982.0	1982.0
2.5°	1988.9	1983.3	1976.4	1980.6	1984.0
5°	1984.0	1981.3	1973.0	1970.9	1977.8
7.5°	1973.7	1966.8	1959.2	1962.6	1959.9
10°	1957.8	1951.6	1941.9	1942.6	1947.5
12.5°	1938.5	1930.9	1920.5	1923.3	1927.4
15°	1912.9	1901.2	1893.6	1894.3	1901.9
17.5°	1880.5	1871.5	1861.9	1863.9	1867.4
20°	1843.2	1838.4	1824.6	1820.5	1823.9
22.5°	1796.3	1787.3	1779.8	1777.7	1778.4
25°	1743.2	1733.5	1724.6	1718.3	1723.2
27.5°	1681.1	1672.8	1661.1	1659.0	1663.1
30°	1610.7	1604.5	1594.1	1591.4	1597.6
32.5°	1538.9	1528.6	1514.1	1514.1	1515.5
35°	1447.1	1445.1	1430.6	1431.3	1432.6
37.5°	1364.3	1354.7	1346.4	1338.1	1342.2
40°	1272.5	1261.5	1250.5	1244.9	1242.9
42.5°	1173.9	1165.6	1160.7	1140.7	1135.9
45°	1076.5	1069.6	1062.1	1035.8	1020.0
47.5°	977.2	975.8	969.6	923.3	907.5
50°	884.7	882.6	860.5	811.6	795.7
52.5°	797.1	783.3	754.3	706.0	703.2
55°	708.7	686.6	645.2	613.5	612.1
57.5°	615.6	589.3	547.2	530.0	539.0
60°	541.0	501.0	452.7	454.8	469.3
62.5°	463.7	418.9	371.3	392.0	409.2
65°	398.9	351.3	300.9	341.6	365.1
67.5°	342.3	298.1	249.8	304.3	327.1
70°	295.4	259.5	212.5	269.8	295.4
72.5°	258.1	225.0	188.4	242.2	271.9
75°	223.6	193.9	171.1	213.2	246.4
77.5°	193.9	164.9	154.6	188.4	220.8
80°	162.9	136.6	135.3	164.2	188.4
82.5°	127.0	109.0	109.0	137.3	151.8
85°	89.7	78.7	76.6	100.1	101.4
87.5°	46.2	44.2	40.0	52.4	52.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)