

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: P293109

Luminaire Tested: **24GR-LD5-42-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-F1-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3587.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

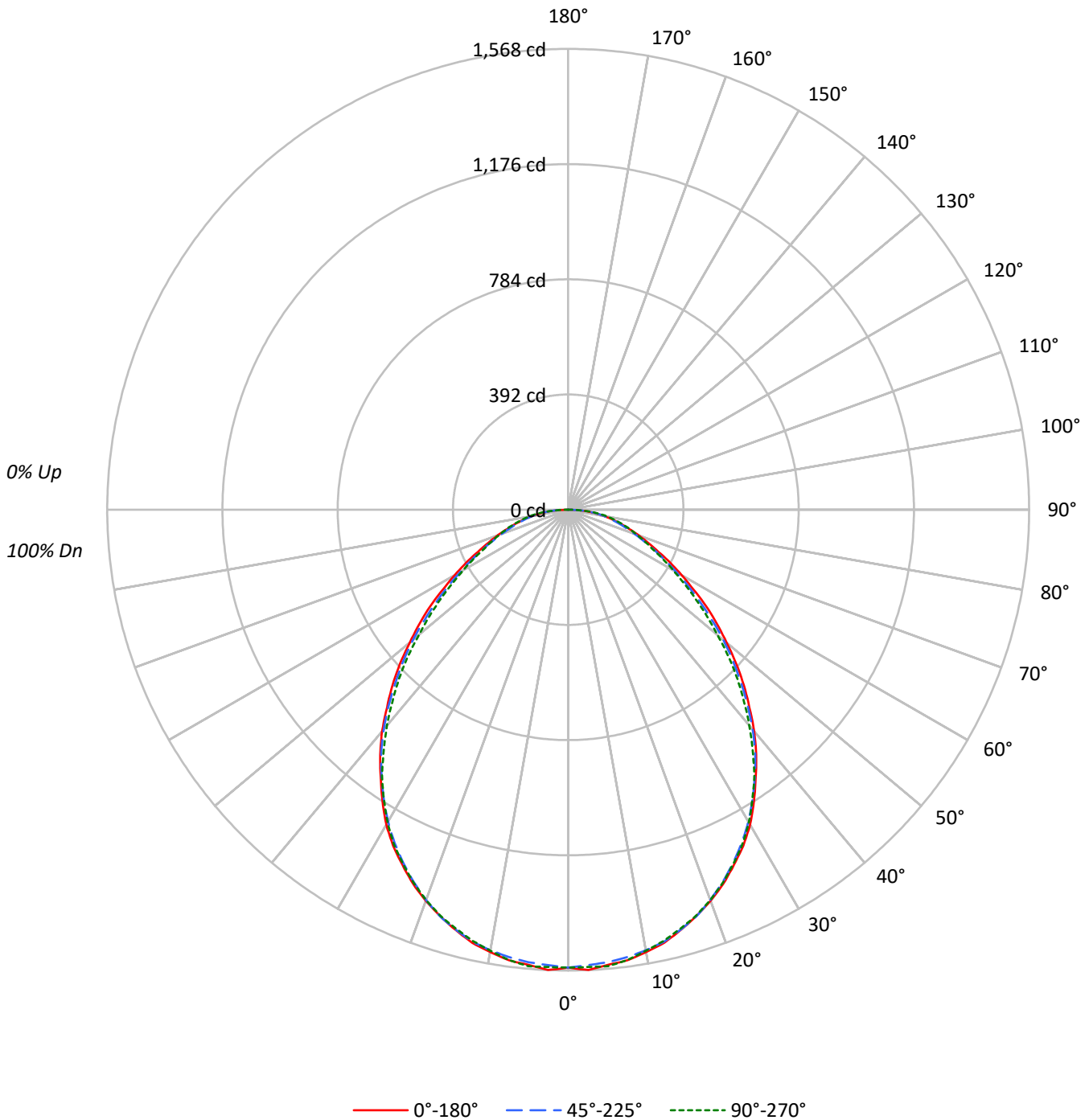
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2096	2096	2096
5°	2099	2087	2105
10°	2088	2079	2081
15°	2062	2060	2055
20°	2028	2023	2023
25°	1980	1969	1974
30°	1923	1904	1909
35°	1827	1818	1813
40°	1730	1714	1684
45°	1608	1580	1549
50°	1473	1440	1386
55°	1345	1284	1241
60°	1199	1141	1111
65°	1079	1022	1008
70°	1001	940	978
75°	958	915	992
80°	958	958	1061
85°	994	1005	1119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	4.1
10°-20°	416.4	11.6
20°-30°	611.1	17.0
30°-40°	690.9	19.3
40°-50°	638.6	17.8
50°-60°	492.0	13.7
60°-70°	325.8	9.1
70°-80°	193.9	5.4
80°-90°	71.1	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°	1174.7	32.7
0°-40°	1865.7	52.0
0°-60°	2996.2	83.5
0°-90°	3587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1554	1554	1546	1546	1559	148
15°	1480	1478	1479	1478	1475	417
25°	1334	1330	1326	1325	1330	614
35°	1112	1110	1107	1102	1104	696
45°	845	839	830	815	814	651
55°	573	562	548	533	529	511
65°	339	334	321	318	317	340
75°	184	180	176	184	191	196
85°	64	61	65	72	72	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.1	1558.1	1558.1	1558.1	1558.1
2.5°	1567.7	1559.6	1550.7	1550.7	1557.4
5°	1554.4	1554.4	1545.5	1546.3	1558.8
7.5°	1546.3	1541.8	1535.9	1535.9	1545.5
10°	1528.5	1524.8	1521.9	1520.4	1523.3
12.5°	1509.3	1503.4	1505.6	1503.4	1502.6
15°	1480.4	1477.5	1478.9	1478.2	1475.2
17.5°	1449.4	1447.9	1450.8	1445.7	1447.9
20°	1416.1	1411.6	1413.1	1410.1	1413.1
22.5°	1378.3	1375.4	1371.7	1368.0	1373.9
25°	1333.9	1330.2	1326.5	1325.1	1329.5
27.5°	1289.5	1283.6	1278.4	1277.0	1283.6
30°	1237.8	1231.1	1225.2	1223.7	1228.9
32.5°	1176.3	1174.9	1167.5	1164.5	1166.7
35°	1112.0	1110.5	1106.8	1101.6	1103.8
37.5°	1050.6	1049.8	1044.7	1035.8	1029.9
40°	984.7	979.6	975.9	963.3	958.8
42.5°	912.2	910.7	904.1	890.0	884.9
45°	844.9	839.0	830.1	815.3	813.8
47.5°	775.4	767.2	759.1	740.6	739.8
50°	703.6	697.7	688.1	669.6	662.2
52.5°	637.0	628.9	615.5	597.8	594.1
55°	573.4	561.5	547.5	532.7	529.0
57.5°	505.3	500.1	483.1	471.3	466.8
60°	445.4	440.9	423.9	412.8	412.8
62.5°	391.4	384.7	369.9	362.5	362.5
65°	338.8	333.7	321.1	318.1	316.7
67.5°	293.7	287.1	278.2	277.4	281.1
70°	254.5	246.4	239.0	246.4	248.6
72.5°	217.5	212.3	205.7	215.3	219.7
75°	184.2	179.8	176.1	184.2	190.9
77.5°	153.9	149.4	149.4	158.3	164.2
80°	123.6	120.6	123.6	131.0	136.9
82.5°	94.7	92.5	96.2	103.6	107.3
85°	64.4	60.7	65.1	71.8	72.5
87.5°	30.3	29.6	32.6	37.0	36.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)