

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: P292980

Luminaire Tested: **24GR-LD5-38-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292980
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-LD5-38-F1-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4022.0 lumens
Efficiency: N/A
Efficacy: 151.7 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

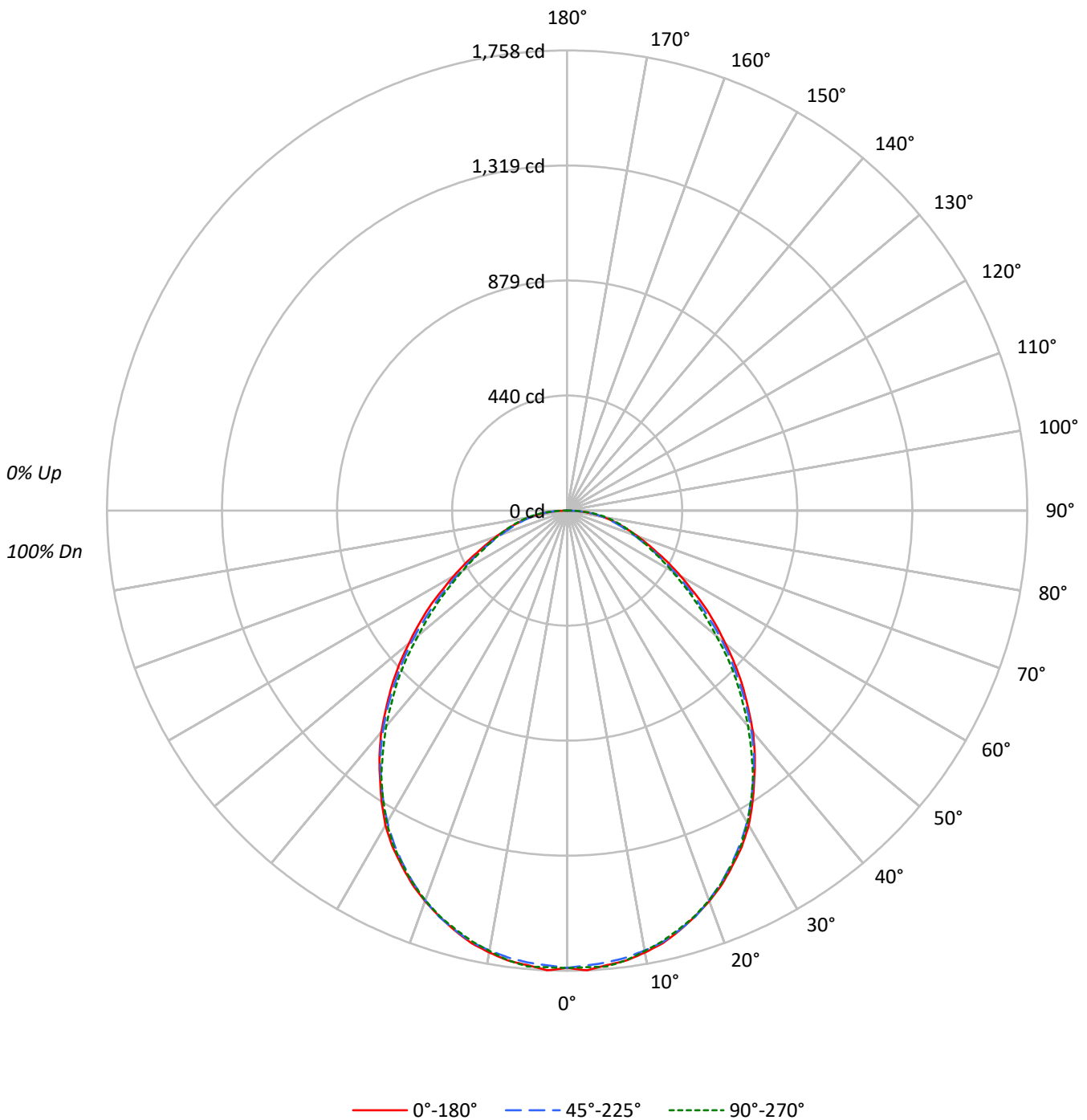
Input Watts (W): 26.505
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2351	2351	2351
5°	2354	2341	2361
10°	2342	2331	2334
15°	2312	2310	2304
20°	2273	2269	2269
25°	2220	2208	2213
30°	2156	2134	2141
35°	2048	2038	2033
40°	1939	1922	1888
45°	1803	1771	1736
50°	1651	1615	1554
55°	1508	1440	1391
60°	1344	1279	1246
65°	1209	1146	1131
70°	1123	1054	1096
75°	1074	1026	1112
80°	1073	1073	1189
85°	1115	1127	1255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	4.1
10°-20°	466.9	11.6
20°-30°	685.3	17.0
30°-40°	774.7	19.3
40°-50°	716.0	17.8
50°-60°	551.7	13.7
60°-70°	365.3	9.1
70°-80°	217.5	5.4
80°-90°	79.7	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°	1317.2	32.7
0°-40°	2091.9	52.0
0°-60°	3359.6	83.5
0°-90°	4022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1747	1747	1747	1747	1747	
5°	1743	1743	1733	1734	1748	166
15°	1660	1657	1658	1658	1654	468
25°	1496	1492	1487	1486	1491	689
35°	1247	1245	1241	1235	1238	780
45°	947	941	931	914	912	730
55°	643	630	614	597	593	573
65°	380	374	360	357	355	381
75°	207	202	197	207	214	220
85°	72	68	73	80	81	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.1	1747.1	1747.1	1747.1	1747.1
2.5°	1757.8	1748.7	1738.8	1738.8	1746.2
5°	1742.9	1742.9	1733.0	1733.8	1747.9
7.5°	1733.8	1728.8	1722.2	1722.2	1733.0
10°	1713.9	1709.7	1706.4	1704.8	1708.1
12.5°	1692.3	1685.7	1688.2	1685.7	1684.8
15°	1660.0	1656.6	1658.3	1657.5	1654.2
17.5°	1625.1	1623.5	1626.8	1621.0	1623.5
20°	1587.8	1582.8	1584.5	1581.1	1584.5
22.5°	1545.5	1542.2	1538.0	1533.9	1540.5
25°	1495.7	1491.6	1487.4	1485.7	1490.7
27.5°	1445.9	1439.3	1433.5	1431.8	1439.3
30°	1387.9	1380.4	1373.8	1372.1	1377.9
32.5°	1319.0	1317.3	1309.1	1305.7	1308.2
35°	1246.8	1245.2	1241.0	1235.2	1237.7
37.5°	1178.0	1177.2	1171.3	1161.4	1154.8
40°	1104.1	1098.3	1094.2	1080.1	1075.1
42.5°	1022.9	1021.2	1013.7	998.0	992.2
45°	947.4	940.7	930.8	914.2	912.5
47.5°	869.4	860.3	851.1	830.4	829.6
50°	788.9	782.3	771.5	750.8	742.5
52.5°	714.3	705.1	690.2	670.3	666.1
55°	642.9	629.6	613.9	597.3	593.1
57.5°	566.6	560.8	541.7	528.4	523.5
60°	499.4	494.4	475.3	462.9	462.9
62.5°	438.8	431.4	414.8	406.5	406.5
65°	379.9	374.1	360.0	356.7	355.1
67.5°	329.3	321.9	311.9	311.1	315.2
70°	285.4	276.2	267.9	276.2	278.7
72.5°	243.9	238.1	230.6	241.4	246.4
75°	206.6	201.6	197.4	206.6	214.0
77.5°	172.5	167.6	167.6	177.5	184.2
80°	138.5	135.2	138.5	146.8	153.5
82.5°	106.2	103.7	107.8	116.1	120.3
85°	72.2	68.0	73.0	80.5	81.3
87.5°	34.0	33.2	36.5	41.5	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)