

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: P293012

Luminaire Tested: **24GR-LD5-64-F1-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293012
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-LD5-64-F1-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6500.0 lumens
Efficiency: N/A
Efficacy: 139.0 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

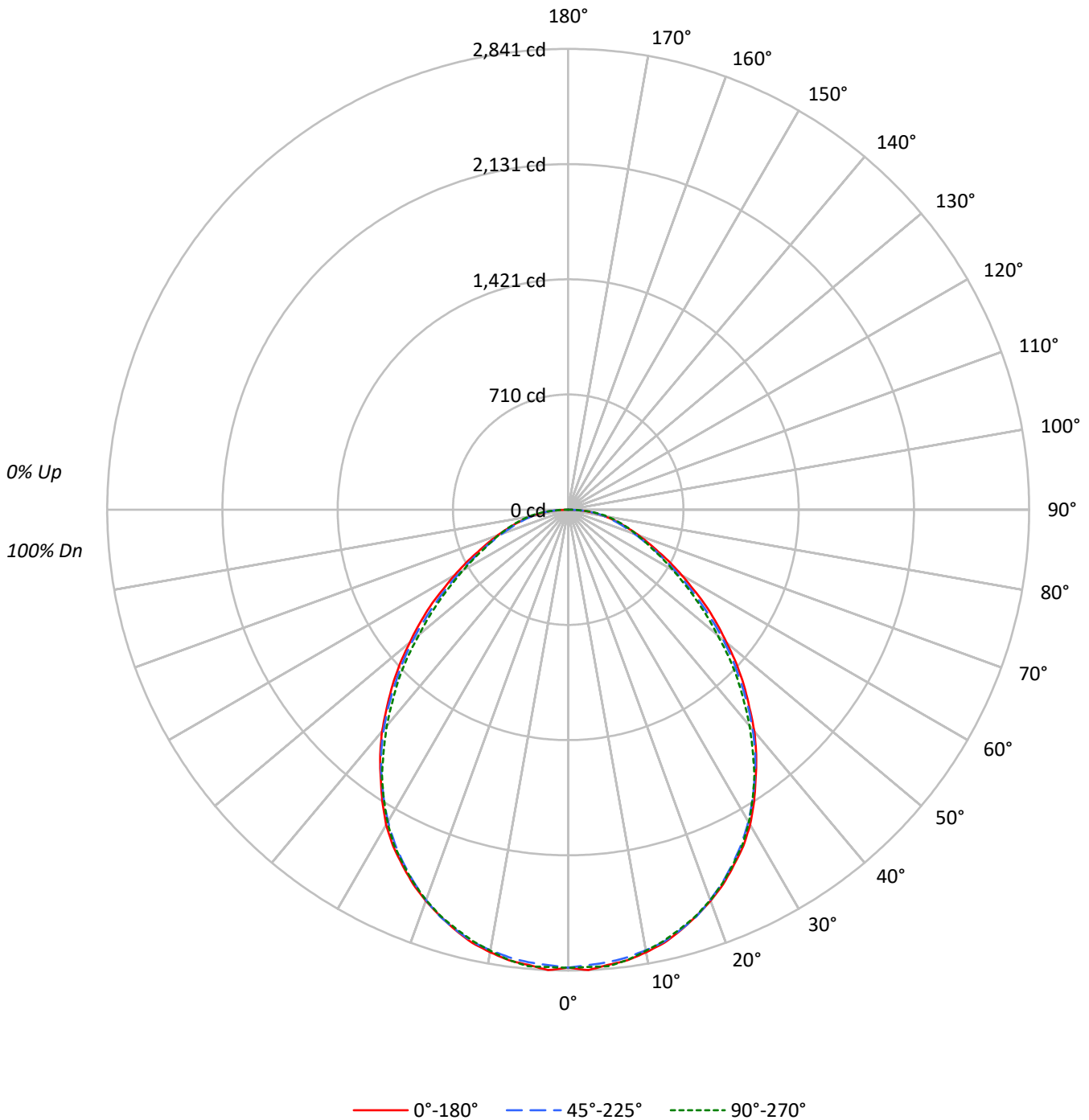
Input Watts (W): 46.779
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3799	3799	3799
5°	3804	3783	3815
10°	3784	3768	3771
15°	3737	3733	3724
20°	3674	3667	3667
25°	3589	3569	3577
30°	3485	3449	3460
35°	3310	3294	3286
40°	3134	3106	3052
45°	2913	2862	2806
50°	2669	2610	2512
55°	2437	2327	2249
60°	2172	2067	2013
65°	1955	1852	1827
70°	1814	1703	1772
75°	1735	1659	1798
80°	1735	1735	1922
85°	1800	1822	2029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	4.1
10°-20°	754.6	11.6
20°-30°	1107.5	17.0
30°-40°	1252.1	19.3
40°-50°	1157.2	17.8
50°-60°	891.6	13.7
60°-70°	590.3	9.1
70°-80°	351.4	5.4
80°-90°	128.7	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°	2128.7	32.7
0°-40°	3380.7	52.0
0°-60°	5429.5	83.5
0°-90°	6500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2823	2823	2823	2823	2823	
5°	2817	2817	2801	2802	2825	268
15°	2683	2677	2680	2679	2673	756
25°	2417	2410	2404	2401	2409	1113
35°	2015	2012	2006	1996	2000	1261
45°	1531	1520	1504	1477	1475	1179
55°	1039	1018	992	965	959	927
65°	614	605	582	576	574	616
75°	334	326	319	334	346	356
85°	117	110	118	130	131	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2823.4	2823.4	2823.4	2823.4	2823.4
2.5°	2840.9	2826.1	2810.0	2810.0	2822.1
5°	2816.7	2816.7	2800.7	2802.0	2824.8
7.5°	2802.0	2794.0	2783.2	2783.2	2800.7
10°	2769.8	2763.1	2757.8	2755.1	2760.4
12.5°	2735.0	2724.2	2728.3	2724.2	2722.9
15°	2682.7	2677.3	2680.0	2678.7	2673.3
17.5°	2626.4	2623.7	2629.0	2619.7	2623.7
20°	2566.0	2558.0	2560.7	2555.3	2560.7
22.5°	2497.7	2492.3	2485.6	2478.9	2489.6
25°	2417.2	2410.5	2403.8	2401.1	2409.2
27.5°	2336.8	2326.1	2316.7	2314.0	2326.1
30°	2242.9	2230.9	2220.1	2217.5	2226.8
32.5°	2131.7	2129.0	2115.6	2110.2	2114.2
35°	2015.0	2012.3	2005.6	1996.3	2000.3
37.5°	1903.7	1902.4	1893.0	1876.9	1866.2
40°	1784.4	1775.0	1768.3	1745.5	1737.5
42.5°	1653.0	1650.4	1638.3	1612.8	1603.4
45°	1531.0	1520.3	1504.2	1477.4	1474.7
47.5°	1405.0	1390.3	1375.5	1342.0	1340.7
50°	1275.0	1264.2	1246.8	1213.3	1199.9
52.5°	1154.3	1139.6	1115.4	1083.3	1076.6
55°	1039.0	1017.6	992.1	965.3	958.6
57.5°	915.7	906.3	875.5	854.0	846.0
60°	807.1	799.0	768.2	748.1	748.1
62.5°	709.2	697.1	670.3	656.9	656.9
65°	614.0	604.6	581.8	576.5	573.8
67.5°	532.2	520.2	504.1	502.8	509.5
70°	461.2	446.4	433.0	446.4	450.5
72.5°	394.2	384.8	372.7	390.1	398.2
75°	333.8	325.8	319.1	333.8	345.9
77.5°	278.9	270.8	270.8	286.9	297.6
80°	223.9	218.5	223.9	237.3	248.0
82.5°	171.6	167.6	174.3	187.7	194.4
85°	116.6	109.9	118.0	130.0	131.4
87.5°	55.0	53.6	59.0	67.0	65.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)