

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: P293527

Luminaire Tested: **24GR-LD5-72-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293527
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-LD5-72-A-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7606.0 lumens
Efficiency: N/A
Efficacy: 140.8 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

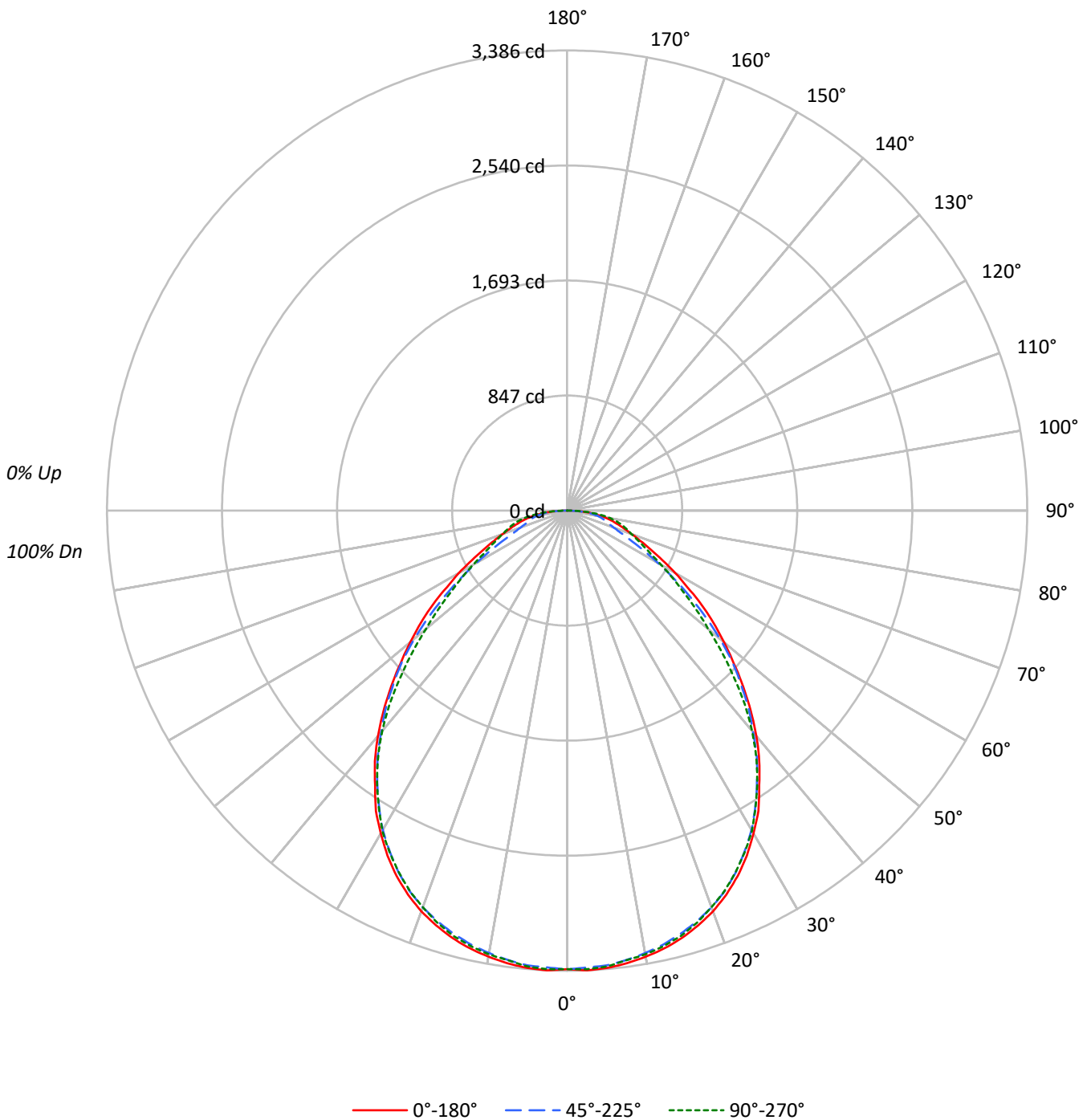
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4541	4541	4541
5°	4563	4537	4548
10°	4555	4517	4530
15°	4537	4491	4511
20°	4494	4448	4447
25°	4406	4359	4356
30°	4261	4217	4226
35°	4047	4001	4007
40°	3806	3740	3717
45°	3488	3441	3305
50°	3153	3067	2836
55°	2831	2577	2445
60°	2479	2074	2150
65°	2162	1631	1979
70°	1978	1424	1978
75°	1979	1515	2181
80°	2149	1784	2486
85°	2359	2013	2666



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.6	4.2
10°-20°	912.0	12.0
20°-30°	1352.3	17.8
30°-40°	1525.6	20.1
40°-50°	1381.7	18.2
50°-60°	996.8	13.1
60°-70°	595.2	7.8
70°-80°	367.9	4.8
80°-90°	155.0	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°	2583.9	34.0
0°-40°	4109.4	54.0
0°-60°	6488.0	85.3
0°-90°	7606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3375	3375	3375	3375	3375	
5°	3378	3374	3359	3356	3368	321
15°	3257	3237	3224	3226	3238	918
25°	2968	2952	2936	2926	2934	1364
35°	2464	2460	2436	2437	2439	1542
45°	1833	1821	1808	1764	1737	1413
55°	1207	1169	1099	1045	1042	1077
65°	679	598	512	582	622	683
75°	381	330	291	363	420	407
85°	153	134	130	170	173	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3374.7	3374.7	3374.7	3374.7	3374.7
2.5°	3386.4	3377.0	3365.3	3372.3	3378.2
5°	3378.2	3373.5	3359.4	3355.9	3367.6
7.5°	3360.6	3348.8	3335.9	3341.8	3337.1
10°	3333.6	3323.0	3306.5	3307.7	3315.9
12.5°	3300.7	3287.7	3270.1	3274.8	3281.9
15°	3257.2	3237.2	3224.3	3225.5	3238.4
17.5°	3202.0	3186.7	3170.2	3173.8	3179.6
20°	3138.5	3130.3	3106.8	3099.7	3105.6
22.5°	3058.6	3043.3	3030.4	3026.9	3028.1
25°	2968.1	2951.7	2936.4	2925.8	2934.1
27.5°	2862.4	2848.3	2828.3	2824.8	2831.8
30°	2742.5	2732.0	2714.3	2709.6	2720.2
32.5°	2620.3	2602.7	2578.0	2578.0	2580.4
35°	2464.0	2460.5	2435.8	2437.0	2439.4
37.5°	2323.0	2306.6	2292.5	2278.4	2285.4
40°	2166.8	2148.0	2129.2	2119.8	2116.2
42.5°	1998.7	1984.6	1976.4	1942.3	1934.1
45°	1833.1	1821.3	1808.4	1763.7	1736.7
47.5°	1663.8	1661.5	1650.9	1572.2	1545.2
50°	1506.4	1502.9	1465.3	1381.8	1354.8
52.5°	1357.2	1333.7	1284.3	1202.1	1197.4
55°	1206.8	1169.2	1098.7	1044.6	1042.3
57.5°	1048.1	1003.5	931.8	902.4	917.7
60°	921.2	853.1	770.8	774.3	799.0
62.5°	789.6	713.2	632.2	667.4	696.8
65°	679.2	598.1	512.3	581.6	621.6
67.5°	582.8	507.6	425.4	518.2	557.0
70°	502.9	441.8	361.9	459.4	502.9
72.5°	439.5	383.1	320.8	412.4	463.0
75°	380.7	330.2	291.4	363.1	419.5
77.5°	330.2	280.8	263.2	320.8	376.0
80°	277.3	232.7	230.3	279.7	320.8
82.5°	216.2	185.7	185.7	233.8	258.5
85°	152.8	134.0	130.4	170.4	172.7
87.5°	78.7	75.2	68.2	89.3	89.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)