

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: P293536

Luminaire Tested: **24GR-LD5-85-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293536
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-LD5-85-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: 8720.0 lumens
Efficiency: N/A
Efficacy: 135.9 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

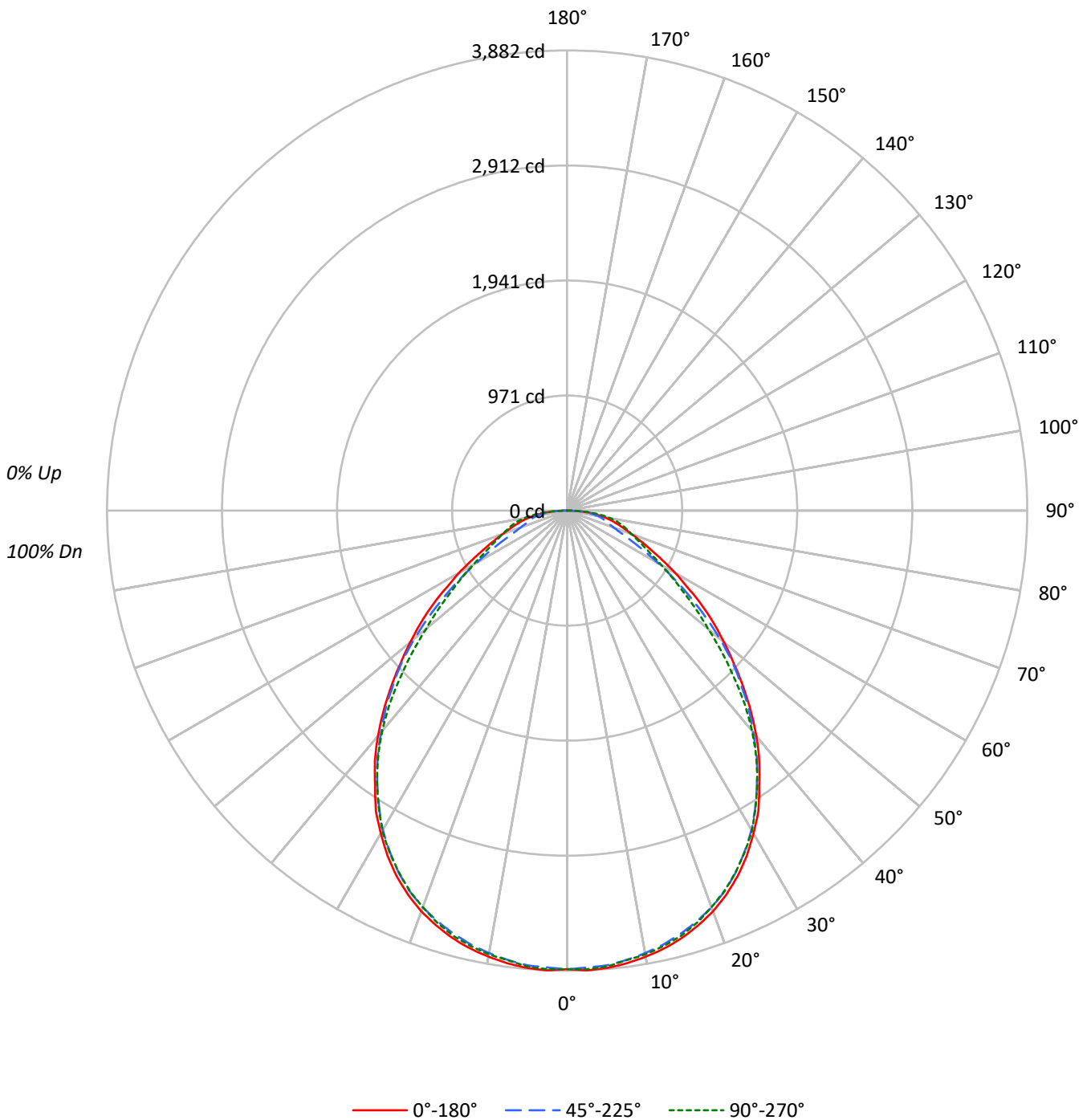
Input Watts (W): 64.17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5206	5206	5206
5°	5231	5202	5215
10°	5222	5179	5194
15°	5202	5149	5172
20°	5152	5100	5098
25°	5052	4998	4994
30°	4885	4835	4845
35°	4640	4587	4594
40°	4363	4287	4261
45°	3999	3945	3789
50°	3615	3516	3251
55°	3245	2955	2803
60°	2842	2378	2465
65°	2479	1870	2269
70°	2268	1632	2268
75°	2269	1737	2500
80°	2463	2046	2850
85°	2703	2308	3057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	4.2
10°-20°	1045.6	12.0
20°-30°	1550.4	17.8
30°-40°	1749.0	20.1
40°-50°	1584.1	18.2
50°-60°	1142.8	13.1
60°-70°	682.4	7.8
70°-80°	421.7	4.8
80°-90°	177.7	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°	2962.3	34.0
0°-40°	4711.3	54.0
0°-60°	7438.2	85.3
0°-90°	8720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3869	3869	3869	3869	3869	
5°	3873	3868	3852	3847	3861	368
15°	3734	3711	3696	3698	3713	1053
25°	3403	3384	3366	3354	3364	1563
35°	2825	2821	2793	2794	2797	1767
45°	2102	2088	2073	2022	1991	1619
55°	1384	1340	1260	1198	1195	1235
65°	779	686	587	667	713	783
75°	436	378	334	416	481	466
85°	175	154	150	195	198	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3869.0	3869.0	3869.0	3869.0	3869.0
2.5°	3882.4	3871.7	3858.2	3866.3	3873.0
5°	3873.0	3867.6	3851.5	3847.4	3860.9
7.5°	3852.8	3839.3	3824.5	3831.2	3825.9
10°	3821.8	3809.7	3790.8	3792.2	3801.6
12.5°	3784.1	3769.3	3749.1	3754.5	3762.5
15°	3734.2	3711.3	3696.5	3697.9	3712.7
17.5°	3670.9	3653.4	3634.6	3638.6	3645.3
20°	3598.2	3588.8	3561.8	3553.7	3560.5
22.5°	3506.6	3489.1	3474.3	3470.2	3471.6
25°	3402.9	3384.0	3366.5	3354.4	3363.8
27.5°	3281.6	3265.4	3242.5	3238.5	3246.6
30°	3144.2	3132.1	3111.9	3106.5	3118.6
32.5°	3004.1	2983.9	2955.6	2955.6	2958.3
35°	2824.9	2820.9	2792.6	2794.0	2796.6
37.5°	2663.3	2644.4	2628.3	2612.1	2620.2
40°	2484.1	2462.6	2441.0	2430.2	2426.2
42.5°	2291.5	2275.3	2265.9	2226.8	2217.4
45°	2101.5	2088.1	2073.2	2022.0	1991.1
47.5°	1907.5	1904.8	1892.7	1802.5	1771.5
50°	1727.0	1723.0	1679.9	1584.2	1553.2
52.5°	1555.9	1529.0	1472.4	1378.1	1372.7
55°	1383.5	1340.4	1259.6	1197.6	1194.9
57.5°	1201.6	1150.5	1068.3	1034.6	1052.1
60°	1056.2	978.0	883.7	887.8	916.0
62.5°	905.3	817.7	724.8	765.2	798.8
65°	778.6	685.7	587.3	666.8	712.6
67.5°	668.2	582.0	487.7	594.1	638.5
70°	576.6	506.5	414.9	526.7	576.6
72.5°	503.8	439.2	367.8	472.8	530.8
75°	436.5	378.5	334.1	416.3	480.9
77.5°	378.5	322.0	301.8	367.8	431.1
80°	317.9	266.7	264.0	320.6	367.8
82.5°	247.9	212.8	212.8	268.1	296.4
85°	175.1	153.6	149.5	195.3	198.0
87.5°	90.3	86.2	78.1	102.4	102.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)