

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: P293538

Luminaire Tested: **24GR-LD5-85-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293538
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8766.0 lumens
Efficiency: N/A
Efficacy: 134.5 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

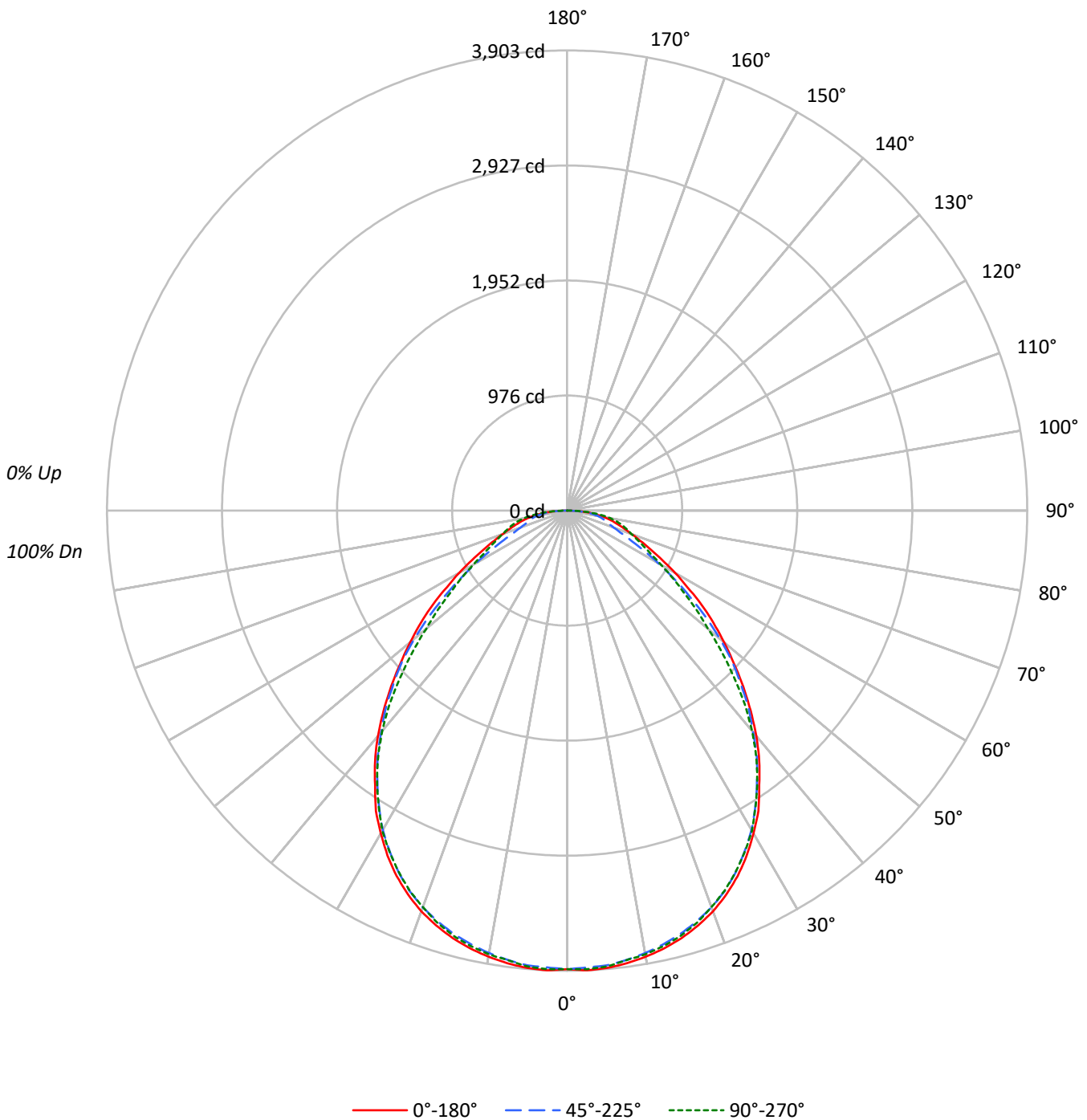
Input Watts (W): 65.193
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5233	5233	5233
5°	5259	5229	5242
10°	5249	5206	5221
15°	5229	5176	5199
20°	5179	5127	5125
25°	5078	5024	5020
30°	4911	4860	4871
35°	4664	4611	4618
40°	4386	4310	4284
45°	4020	3966	3809
50°	3634	3535	3268
55°	3263	2970	2818
60°	2857	2391	2478
65°	2492	1880	2281
70°	2280	1641	2280
75°	2281	1746	2514
80°	2476	2056	2865
85°	2719	2320	3074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.3	4.2
10°-20°	1051.1	12.0
20°-30°	1558.6	17.8
30°-40°	1758.2	20.1
40°-50°	1592.4	18.2
50°-60°	1148.9	13.1
60°-70°	685.9	7.8
70°-80°	424.0	4.8
80°-90°	178.6	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°	2978.0	34.0
0°-40°	4736.2	54.0
0°-60°	7477.5	85.3
0°-90°	8766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3889	3889	3889	3889	3889	
5°	3893	3888	3872	3868	3881	370
15°	3754	3731	3716	3717	3732	1058
25°	3421	3402	3384	3372	3382	1571
35°	2840	2836	2807	2809	2811	1777
45°	2113	2099	2084	2033	2002	1628
55°	1391	1348	1266	1204	1201	1242
65°	783	689	590	670	716	787
75°	439	380	336	418	484	469
85°	176	154	150	196	199	184
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3889.4	3889.4	3889.4	3889.4	3889.4
2.5°	3902.9	3892.1	3878.5	3886.7	3893.4
5°	3893.4	3888.0	3871.8	3867.7	3881.2
7.5°	3873.1	3859.6	3844.7	3851.5	3846.0
10°	3842.0	3829.8	3810.8	3812.2	3821.7
12.5°	3804.1	3789.2	3768.8	3774.3	3782.4
15°	3753.9	3730.9	3716.0	3717.4	3732.3
17.5°	3690.3	3672.7	3653.7	3657.8	3664.6
20°	3617.2	3607.7	3580.6	3572.5	3579.3
22.5°	3525.1	3507.5	3492.6	3488.5	3489.9
25°	3420.8	3401.8	3384.2	3372.1	3381.5
27.5°	3298.9	3282.7	3259.7	3255.6	3263.7
30°	3160.8	3148.6	3128.3	3122.9	3135.1
32.5°	3020.0	2999.6	2971.2	2971.2	2973.9
35°	2839.8	2835.8	2807.3	2808.7	2811.4
37.5°	2677.3	2658.4	2642.1	2625.9	2634.0
40°	2497.2	2475.5	2453.9	2443.0	2439.0
42.5°	2303.6	2287.3	2277.8	2238.6	2229.1
45°	2112.6	2099.1	2084.2	2032.7	2001.6
47.5°	1917.6	1914.9	1902.7	1812.0	1780.8
50°	1736.1	1732.1	1688.7	1592.6	1561.4
52.5°	1564.1	1537.1	1480.2	1385.4	1380.0
55°	1390.8	1347.5	1266.2	1203.9	1201.2
57.5°	1208.0	1156.5	1073.9	1040.1	1057.7
60°	1061.7	983.2	888.4	892.4	920.9
62.5°	910.0	822.0	728.6	769.2	803.1
65°	782.7	689.3	590.4	670.3	716.4
67.5°	671.7	585.0	490.2	597.2	641.9
70°	579.6	509.2	417.1	529.5	579.6
72.5°	506.5	441.5	369.7	475.3	533.6
75°	438.8	380.5	335.9	418.5	483.5
77.5°	380.5	323.7	303.3	369.7	433.4
80°	319.6	268.1	265.4	322.3	369.7
82.5°	249.2	214.0	214.0	269.5	297.9
85°	176.1	154.4	150.3	196.4	199.1
87.5°	90.7	86.7	78.5	102.9	102.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)