

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: P293533

Luminaire Tested: **24GR-LD5-85-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293533
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8371.0 lumens
Efficiency: N/A
Efficacy: 132.6 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

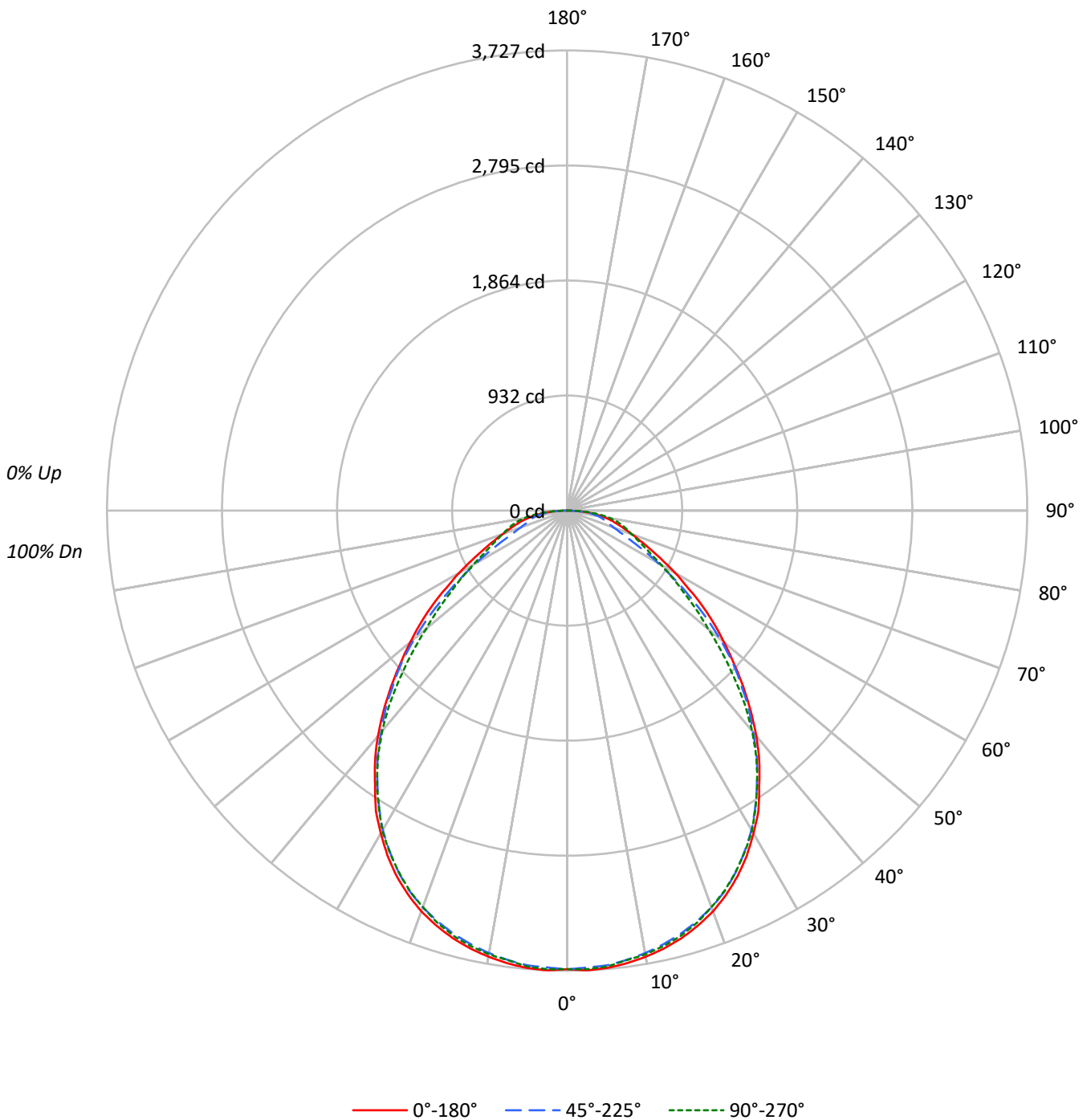
Input Watts (W): 63.147
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4997	4997	4997
5°	5022	4994	5006
10°	5013	4972	4986
15°	4993	4943	4965
20°	4946	4896	4894
25°	4850	4798	4794
30°	4689	4641	4651
35°	4454	4403	4410
40°	4189	4116	4091
45°	3839	3787	3637
50°	3470	3376	3121
55°	3115	2837	2691
60°	2728	2283	2366
65°	2380	1795	2178
70°	2177	1567	2177
75°	2178	1667	2400
80°	2365	1964	2735
85°	2595	2215	2935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	4.2
10°-20°	1003.7	12.0
20°-30°	1488.3	17.8
30°-40°	1679.0	20.1
40°-50°	1520.7	18.2
50°-60°	1097.1	13.1
60°-70°	655.0	7.8
70°-80°	404.9	4.8
80°-90°	170.5	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°	2843.8	34.0
0°-40°	4522.8	54.0
0°-60°	7140.5	85.3
0°-90°	8371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3714	3714	3714	3714	3714	
5°	3718	3713	3697	3693	3706	353
15°	3585	3563	3549	3550	3564	1010
25°	3267	3249	3232	3220	3229	1501
35°	2712	2708	2681	2682	2685	1697
45°	2017	2004	1990	1941	1911	1555
55°	1328	1287	1209	1150	1147	1186
65°	748	658	564	640	684	752
75°	419	363	321	400	462	447
85°	168	147	144	188	190	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3714.1	3714.1	3714.1	3714.1	3714.1
2.5°	3727.0	3716.7	3703.8	3711.5	3718.0
5°	3718.0	3712.8	3697.3	3693.4	3706.4
7.5°	3698.6	3685.7	3671.4	3677.9	3672.7
10°	3668.9	3657.2	3639.1	3640.4	3649.5
12.5°	3632.6	3618.4	3599.0	3604.2	3612.0
15°	3584.8	3562.8	3548.6	3549.9	3564.1
17.5°	3524.0	3507.2	3489.1	3493.0	3499.4
20°	3454.2	3445.1	3419.3	3411.5	3418.0
22.5°	3366.2	3349.4	3335.2	3331.3	3332.6
25°	3266.7	3248.6	3231.7	3220.1	3229.2
27.5°	3150.3	3134.8	3112.8	3108.9	3116.6
30°	3018.4	3006.7	2987.3	2982.2	2993.8
32.5°	2883.9	2864.5	2837.3	2837.3	2839.9
35°	2711.9	2708.0	2680.8	2682.1	2684.7
37.5°	2556.7	2538.6	2523.1	2507.5	2515.3
40°	2384.7	2364.0	2343.3	2333.0	2329.1
42.5°	2199.8	2184.2	2175.2	2137.7	2128.6
45°	2017.4	2004.5	1990.3	1941.1	1911.4
47.5°	1831.2	1828.6	1817.0	1730.3	1700.6
50°	1657.9	1654.0	1612.6	1520.8	1491.1
52.5°	1493.7	1467.8	1413.5	1323.0	1317.8
55°	1328.1	1286.7	1209.2	1149.7	1147.1
57.5°	1153.5	1104.4	1025.5	993.2	1010.0
60°	1013.9	938.9	848.3	852.2	879.4
62.5°	869.0	785.0	695.8	734.5	766.9
65°	747.5	658.2	563.8	640.1	684.1
67.5°	641.4	558.7	468.1	570.3	613.0
70°	553.5	486.2	398.3	505.6	553.5
72.5°	483.7	421.6	353.0	453.9	509.5
75°	419.0	363.4	320.7	399.6	461.7
77.5°	363.4	309.1	289.7	353.0	413.8
80°	305.2	256.1	253.5	307.8	353.0
82.5°	238.0	204.3	204.3	257.3	284.5
85°	168.1	147.4	143.5	187.5	190.1
87.5°	86.6	82.8	75.0	98.3	98.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)