

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: P293531

Luminaire Tested: **24GR-LD5-85-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293531
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7917.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

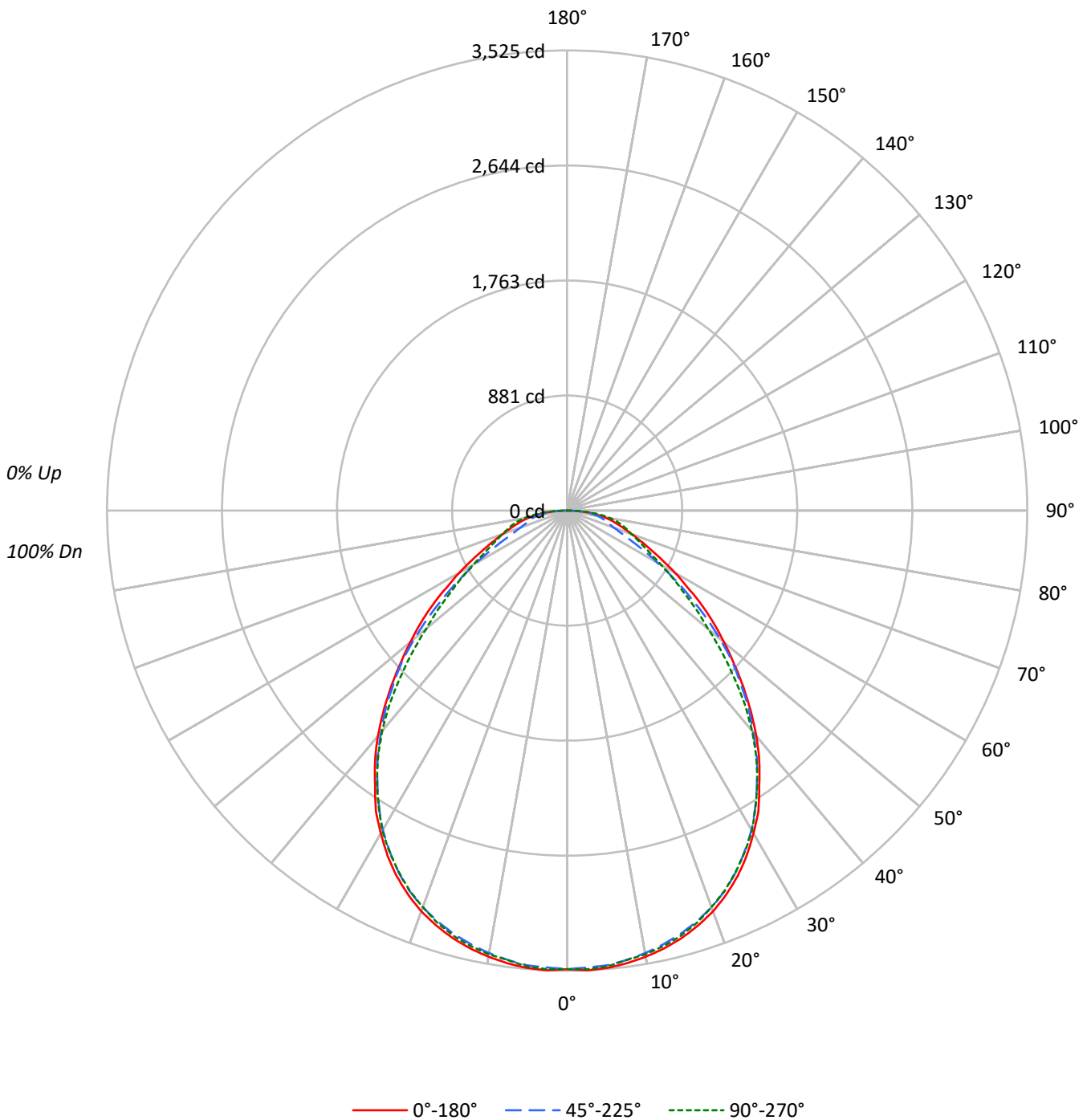
Input Watts (W): 61.938
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4726	4726	4726
5°	4749	4723	4734
10°	4741	4702	4716
15°	4723	4675	4695
20°	4678	4630	4629
25°	4587	4538	4534
30°	4435	4389	4399
35°	4213	4164	4171
40°	3961	3893	3869
45°	3631	3582	3440
50°	3282	3193	2952
55°	2947	2683	2545
60°	2580	2159	2238
65°	2251	1698	2060
70°	2059	1482	2059
75°	2060	1577	2270
80°	2236	1857	2587
85°	2455	2096	2776



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.6	4.2
10°-20°	949.3	12.0
20°-30°	1407.6	17.8
30°-40°	1587.9	20.1
40°-50°	1438.2	18.2
50°-60°	1037.6	13.1
60°-70°	619.5	7.8
70°-80°	382.9	4.8
80°-90°	161.3	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°	2689.5	34.0
0°-40°	4277.5	54.0
0°-60°	6753.3	85.3
0°-90°	7917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3513	3513	3513	3513	3513	
5°	3516	3512	3497	3493	3505	334
15°	3390	3370	3356	3357	3371	956
25°	3090	3072	3056	3046	3054	1419
35°	2565	2561	2535	2537	2539	1605
45°	1908	1896	1882	1836	1808	1470
55°	1256	1217	1144	1087	1085	1121
65°	707	622	533	605	647	711
75°	396	344	303	378	437	423
85°	159	139	136	177	180	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3512.7	3512.7	3512.7	3512.7	3512.7
2.5°	3524.9	3515.1	3502.9	3510.2	3516.4
5°	3516.4	3511.5	3496.8	3493.1	3505.3
7.5°	3498.0	3485.8	3472.3	3478.4	3473.5
10°	3469.9	3458.9	3441.7	3443.0	3451.5
12.5°	3435.6	3422.2	3403.8	3408.7	3416.1
15°	3390.4	3369.6	3356.1	3357.4	3370.8
17.5°	3332.9	3317.0	3299.9	3303.5	3309.7
20°	3266.8	3258.3	3233.8	3226.5	3232.6
22.5°	3183.7	3167.8	3154.3	3150.6	3151.9
25°	3089.5	3072.4	3056.5	3045.5	3054.0
27.5°	2979.4	2964.7	2943.9	2940.3	2947.6
30°	2854.7	2843.7	2825.3	2820.4	2831.4
32.5°	2727.5	2709.1	2683.4	2683.4	2685.9
35°	2564.8	2561.1	2535.4	2536.7	2539.1
37.5°	2418.0	2400.9	2386.2	2371.5	2378.9
40°	2255.4	2235.8	2216.2	2206.4	2202.8
42.5°	2080.5	2065.8	2057.2	2021.7	2013.2
45°	1908.0	1895.8	1882.3	1835.8	1807.7
47.5°	1731.9	1729.4	1718.4	1636.5	1608.3
50°	1568.0	1564.3	1525.2	1438.3	1410.2
52.5°	1412.7	1388.2	1336.8	1251.2	1246.3
55°	1256.1	1217.0	1143.6	1087.3	1084.9
57.5°	1091.0	1044.5	969.9	939.3	955.2
60°	958.9	888.0	802.3	806.0	831.7
62.5°	821.9	742.4	658.0	694.7	725.3
65°	706.9	622.5	533.3	605.4	647.0
67.5°	606.6	528.4	442.8	539.4	579.7
70°	523.5	459.9	376.7	478.2	523.5
72.5°	457.4	398.7	333.9	429.3	481.9
75°	396.3	343.7	303.3	377.9	436.6
77.5°	343.7	292.3	274.0	333.9	391.4
80°	288.6	242.2	239.7	291.1	333.9
82.5°	225.0	193.2	193.2	243.4	269.1
85°	159.0	139.4	135.8	177.3	179.8
87.5°	81.9	78.3	70.9	93.0	93.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)