

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: P293510

Luminaire Tested: **24GR-LD5-56-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293510
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-LD5-56-A-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5944.0 lumens
Efficiency: N/A
Efficacy: 148.3 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

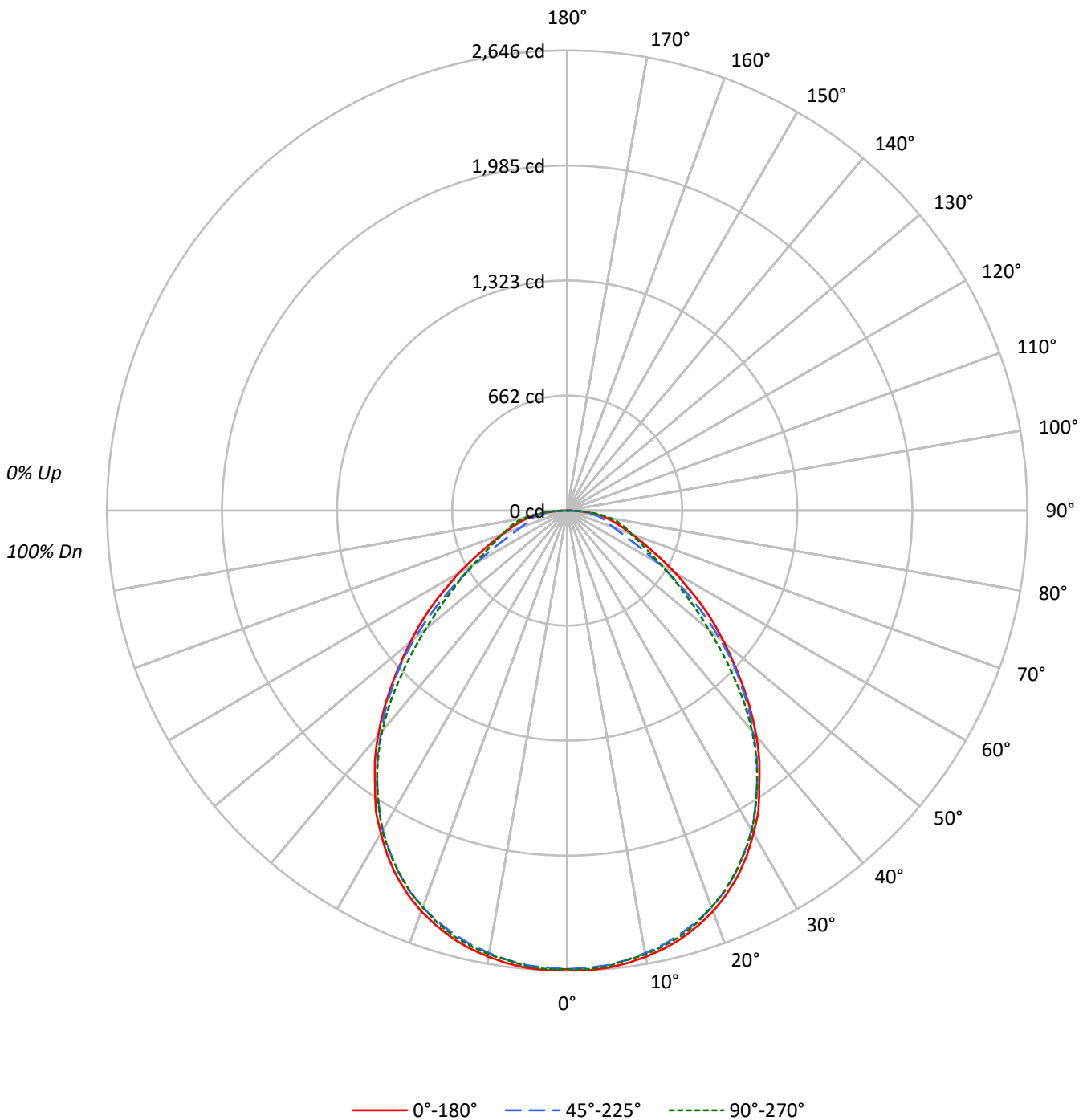
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3548	3548	3548
5°	3566	3546	3555
10°	3559	3530	3540
15°	3546	3510	3525
20°	3512	3476	3475
25°	3444	3407	3404
30°	3330	3296	3303
35°	3163	3127	3131
40°	2974	2922	2905
45°	2726	2689	2582
50°	2464	2397	2216
55°	2212	2014	1911
60°	1937	1621	1680
65°	1690	1275	1547
70°	1546	1113	1546
75°	1547	1184	1704
80°	1679	1395	1943
85°	1843	1573	2084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	4.2
10°-20°	712.7	12.0
20°-30°	1056.8	17.8
30°-40°	1192.2	20.1
40°-50°	1079.8	18.2
50°-60°	779.0	13.1
60°-70°	465.1	7.8
70°-80°	287.5	4.8
80°-90°	121.1	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°	2019.3	34.0
0°-40°	3211.5	54.0
0°-60°	5070.3	85.3
0°-90°	5944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2637	2637	2637	2637	2637	
5°	2640	2636	2625	2623	2632	251
15°	2546	2530	2520	2521	2531	718
25°	2320	2307	2295	2286	2293	1066
35°	1926	1923	1904	1904	1906	1205
45°	1432	1423	1413	1378	1357	1104
55°	943	914	859	816	814	842
65°	531	467	400	454	486	534
75°	298	258	228	284	328	318
85°	119	105	102	133	135	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2637.3	2637.3	2637.3	2637.3	2637.3
2.5°	2646.5	2639.1	2629.9	2635.4	2640.0
5°	2640.0	2636.4	2625.3	2622.6	2631.8
7.5°	2626.3	2617.1	2607.0	2611.6	2607.9
10°	2605.1	2596.9	2584.0	2584.9	2591.4
12.5°	2579.4	2569.3	2555.6	2559.2	2564.7
15°	2545.5	2529.8	2519.7	2520.7	2530.8
17.5°	2502.3	2490.4	2477.5	2480.3	2484.9
20°	2452.7	2446.3	2427.9	2422.4	2427.0
22.5°	2390.3	2378.3	2368.2	2365.5	2366.4
25°	2319.6	2306.7	2294.8	2286.5	2292.9
27.5°	2236.9	2225.9	2210.3	2207.5	2213.0
30°	2143.3	2135.0	2121.2	2117.5	2125.8
32.5°	2047.8	2034.0	2014.7	2014.7	2016.5
35°	1925.6	1922.9	1903.6	1904.5	1906.3
37.5°	1815.4	1802.6	1791.6	1780.5	1786.0
40°	1693.3	1678.6	1663.9	1656.6	1653.8
42.5°	1562.0	1551.0	1544.5	1517.9	1511.5
45°	1432.5	1423.3	1413.2	1378.3	1357.2
47.5°	1300.3	1298.4	1290.2	1228.7	1207.5
50°	1177.2	1174.5	1145.1	1079.9	1058.8
52.5°	1060.6	1042.2	1003.7	939.4	935.7
55°	943.1	913.7	858.6	816.3	814.5
57.5°	819.1	784.2	728.2	705.2	717.2
60°	719.9	666.7	602.4	605.1	624.4
62.5°	617.1	557.4	494.0	521.6	544.5
65°	530.8	467.4	400.4	454.5	485.8
67.5°	455.5	396.7	332.4	405.0	435.3
70°	393.0	345.3	282.8	359.0	393.0
72.5°	343.4	299.4	250.7	322.3	361.8
75°	297.5	258.0	227.7	283.7	327.8
77.5°	258.0	219.5	205.7	250.7	293.8
80°	216.7	181.8	180.0	218.5	250.7
82.5°	169.0	145.1	145.1	182.7	202.0
85°	119.4	104.7	101.9	133.1	135.0
87.5°	61.5	58.8	53.3	69.8	69.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)