

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: P293015

Luminaire Tested: **24GR-LD5-64-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F1-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6671.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

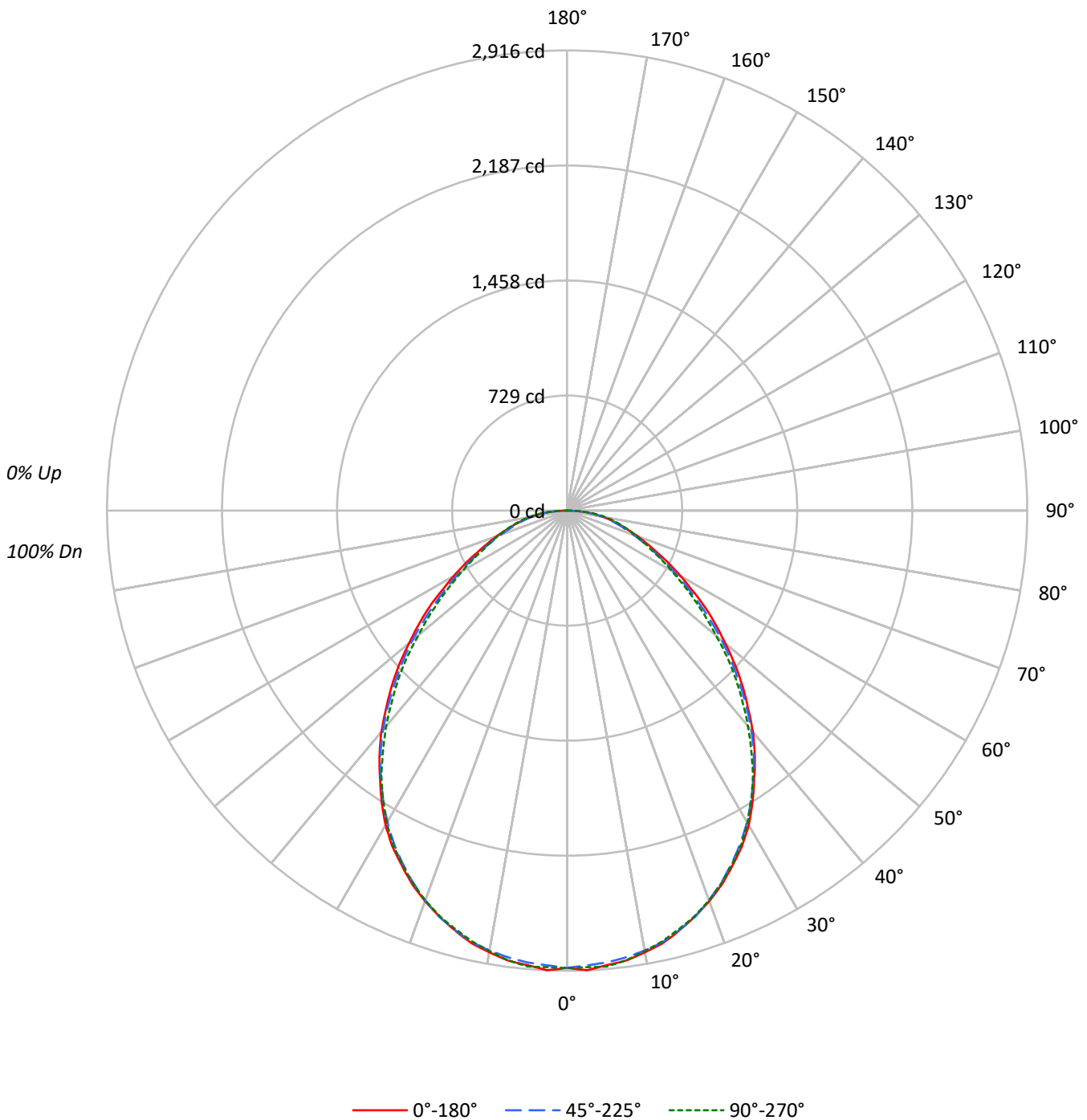
Input Watts (W): 47.244
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3899	3899	3899
5°	3904	3882	3916
10°	3884	3867	3871
15°	3835	3831	3822
20°	3771	3763	3763
25°	3683	3663	3671
30°	3576	3540	3551
35°	3397	3381	3372
40°	3217	3188	3132
45°	2990	2938	2880
50°	2739	2678	2578
55°	2502	2388	2308
60°	2229	2122	2066
65°	2006	1901	1875
70°	1862	1748	1819
75°	1781	1703	1845
80°	1781	1781	1972
85°	1848	1870	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	4.1
10°-20°	774.4	11.6
20°-30°	1136.6	17.0
30°-40°	1285.0	19.3
40°-50°	1187.6	17.8
50°-60°	915.0	13.7
60°-70°	605.9	9.1
70°-80°	360.7	5.4
80°-90°	132.1	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°	2184.7	32.7
0°-40°	3469.7	52.0
0°-60°	5572.3	83.5
0°-90°	6671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2898	2898	2898	2898	2898	
5°	2891	2891	2874	2876	2899	275
15°	2753	2748	2750	2749	2744	776
25°	2481	2474	2467	2464	2473	1142
35°	2068	2065	2058	2049	2053	1294
45°	1571	1560	1544	1516	1514	1210
55°	1066	1044	1018	991	984	951
65°	630	620	597	592	589	632
75°	343	334	328	343	355	365
85°	120	113	121	134	135	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2897.7	2897.7	2897.7	2897.7	2897.7
2.5°	2915.6	2900.5	2884.0	2884.0	2896.3
5°	2890.8	2890.8	2874.3	2875.7	2899.1
7.5°	2875.7	2867.5	2856.4	2856.4	2874.3
10°	2842.7	2835.8	2830.3	2827.6	2833.1
12.5°	2806.9	2795.9	2800.0	2795.9	2794.5
15°	2753.3	2747.7	2750.5	2749.1	2743.6
17.5°	2695.5	2692.7	2698.2	2688.6	2692.7
20°	2633.5	2625.3	2628.0	2622.5	2628.0
22.5°	2563.4	2557.9	2551.0	2544.1	2555.1
25°	2480.8	2473.9	2467.1	2464.3	2472.6
27.5°	2398.3	2387.3	2377.6	2374.9	2387.3
30°	2301.9	2289.6	2278.6	2275.8	2285.4
32.5°	2187.7	2185.0	2171.2	2165.7	2169.9
35°	2068.0	2065.3	2058.4	2048.8	2052.9
37.5°	1953.8	1952.5	1942.8	1926.3	1915.3
40°	1831.4	1821.7	1814.9	1791.5	1783.2
42.5°	1696.5	1693.8	1681.4	1655.3	1645.6
45°	1571.3	1560.3	1543.8	1516.3	1513.5
47.5°	1442.0	1426.8	1411.7	1377.3	1375.9
50°	1308.5	1297.5	1279.6	1245.2	1231.5
52.5°	1184.7	1169.5	1144.8	1111.8	1104.9
55°	1066.4	1044.3	1018.2	990.7	983.8
57.5°	939.8	930.1	898.5	876.5	868.2
60°	828.3	820.1	788.4	767.8	767.8
62.5°	727.9	715.5	688.0	674.2	674.2
65°	630.2	620.5	597.2	591.7	588.9
67.5°	546.2	533.9	517.4	516.0	522.9
70°	473.3	458.2	444.4	458.2	462.3
72.5°	404.5	394.9	382.5	400.4	408.7
75°	342.6	334.4	327.5	342.6	355.0
77.5°	286.2	277.9	277.9	294.5	305.5
80°	229.8	224.3	229.8	243.5	254.5
82.5°	176.1	172.0	178.9	192.6	199.5
85°	119.7	112.8	121.1	133.5	134.8
87.5°	56.4	55.0	60.5	68.8	67.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)