

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: P293519

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293519
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-LD5-64-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: 6750.0 lumens
Efficiency: N/A
Efficacy: 142.9 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

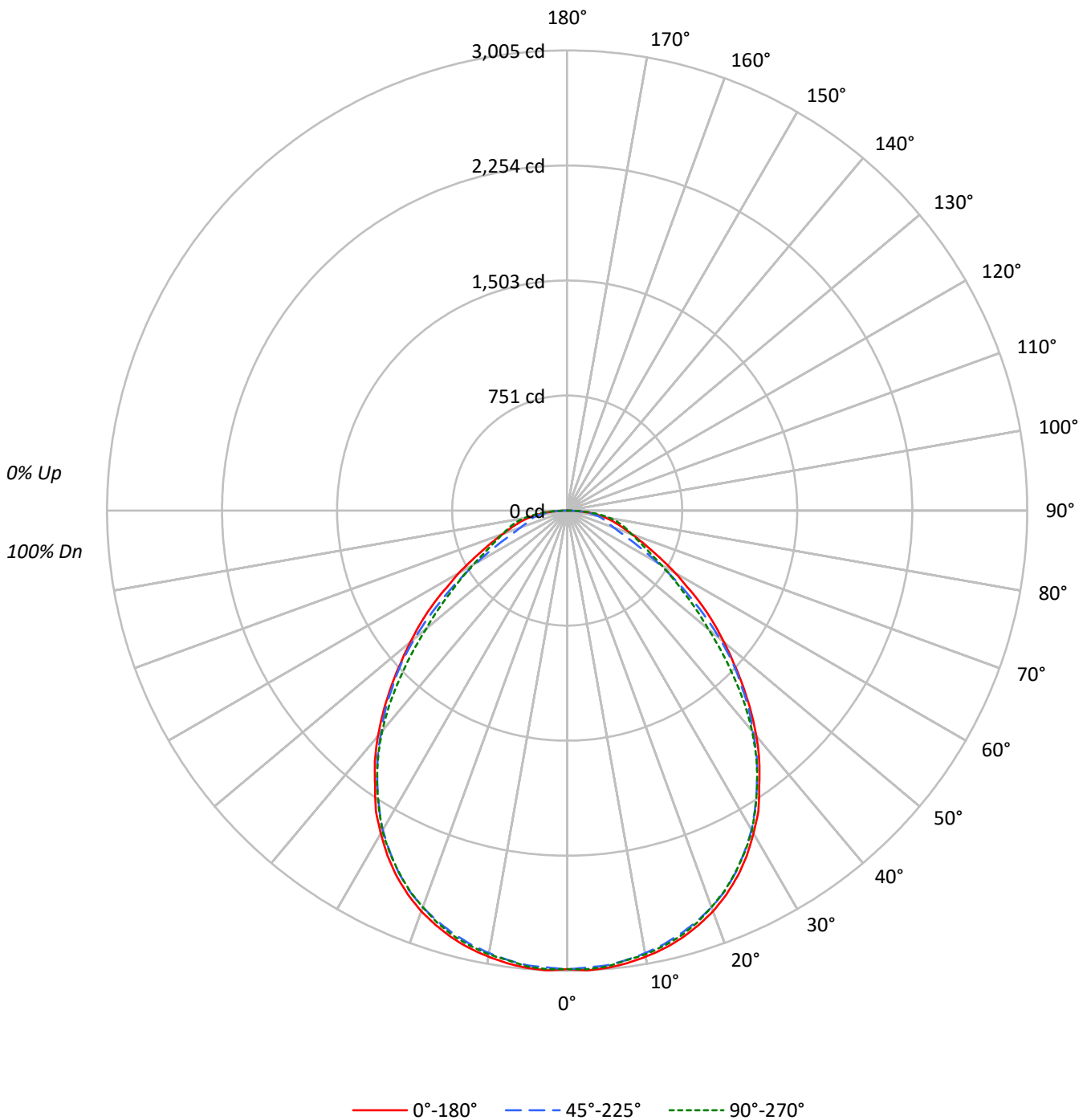
Input Watts (W): 47.244
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4030	4030	4030
5°	4049	4027	4036
10°	4042	4009	4021
15°	4026	3986	4003
20°	3988	3948	3946
25°	3911	3869	3866
30°	3781	3742	3751
35°	3592	3551	3556
40°	3377	3319	3299
45°	3095	3054	2933
50°	2798	2722	2517
55°	2512	2287	2170
60°	2200	1841	1908
65°	1919	1448	1756
70°	1756	1264	1756
75°	1757	1344	1935
80°	1907	1584	2206
85°	2093	1786	2367



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	4.2
10°-20°	809.4	12.0
20°-30°	1200.1	17.8
30°-40°	1353.9	20.1
40°-50°	1226.2	18.2
50°-60°	884.6	13.1
60°-70°	528.2	7.8
70°-80°	326.5	4.8
80°-90°	137.5	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°	2293.1	34.0
0°-40°	3647.0	54.0
0°-60°	5757.8	85.3
0°-90°	6750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6750.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2995	2995	2995	2995	2995	
5°	2998	2994	2981	2978	2989	285
15°	2891	2873	2861	2862	2874	815
25°	2634	2620	2606	2597	2604	1210
35°	2187	2184	2162	2163	2165	1368
45°	1627	1616	1605	1565	1541	1254
55°	1071	1038	975	927	925	956
65°	603	531	455	516	552	606
75°	338	293	259	322	372	361
85°	136	119	116	151	153	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2994.9	2994.9	2994.9	2994.9	2994.9
2.5°	3005.3	2997.0	2986.6	2992.8	2998.0
5°	2998.0	2993.9	2981.3	2978.2	2988.6
7.5°	2982.4	2972.0	2960.5	2965.7	2961.5
10°	2958.4	2949.0	2934.4	2935.5	2942.8
12.5°	2929.2	2917.7	2902.1	2906.3	2912.5
15°	2890.6	2872.9	2861.4	2862.5	2873.9
17.5°	2841.6	2828.1	2813.5	2816.6	2821.8
20°	2785.3	2778.0	2757.1	2750.9	2756.1
22.5°	2714.4	2700.8	2689.4	2686.2	2687.3
25°	2634.1	2619.5	2605.9	2596.6	2603.8
27.5°	2540.2	2527.7	2510.0	2506.9	2513.1
30°	2433.9	2424.5	2408.8	2404.7	2414.1
32.5°	2325.4	2309.8	2287.9	2287.9	2290.0
35°	2186.7	2183.6	2161.7	2162.7	2164.8
37.5°	2061.6	2047.0	2034.5	2022.0	2028.2
40°	1922.9	1906.2	1889.5	1881.2	1878.1
42.5°	1773.8	1761.3	1754.0	1723.7	1716.4
45°	1626.8	1616.3	1604.9	1565.2	1541.2
47.5°	1476.6	1474.5	1465.1	1395.3	1371.3
50°	1336.9	1333.7	1300.4	1226.3	1202.3
52.5°	1204.4	1183.6	1139.8	1066.8	1062.6
55°	1070.9	1037.6	975.0	927.0	925.0
57.5°	930.2	890.5	826.9	800.9	814.4
60°	817.5	757.1	684.1	687.2	709.1
62.5°	700.8	633.0	561.0	592.3	618.4
65°	602.7	530.8	454.7	516.2	551.6
67.5°	517.2	450.5	377.5	459.9	494.3
70°	446.3	392.1	321.2	407.7	446.3
72.5°	390.0	339.9	284.7	366.0	410.9
75°	337.9	293.0	258.6	322.2	372.3
77.5°	293.0	249.2	233.6	284.7	333.7
80°	246.1	206.5	204.4	248.2	284.7
82.5°	191.9	164.8	164.8	207.5	229.4
85°	135.6	118.9	115.7	151.2	153.3
87.5°	69.9	66.7	60.5	79.3	79.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)