

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: P293268

Luminaire Tested: **24GR-LD5-64-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6689.0 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

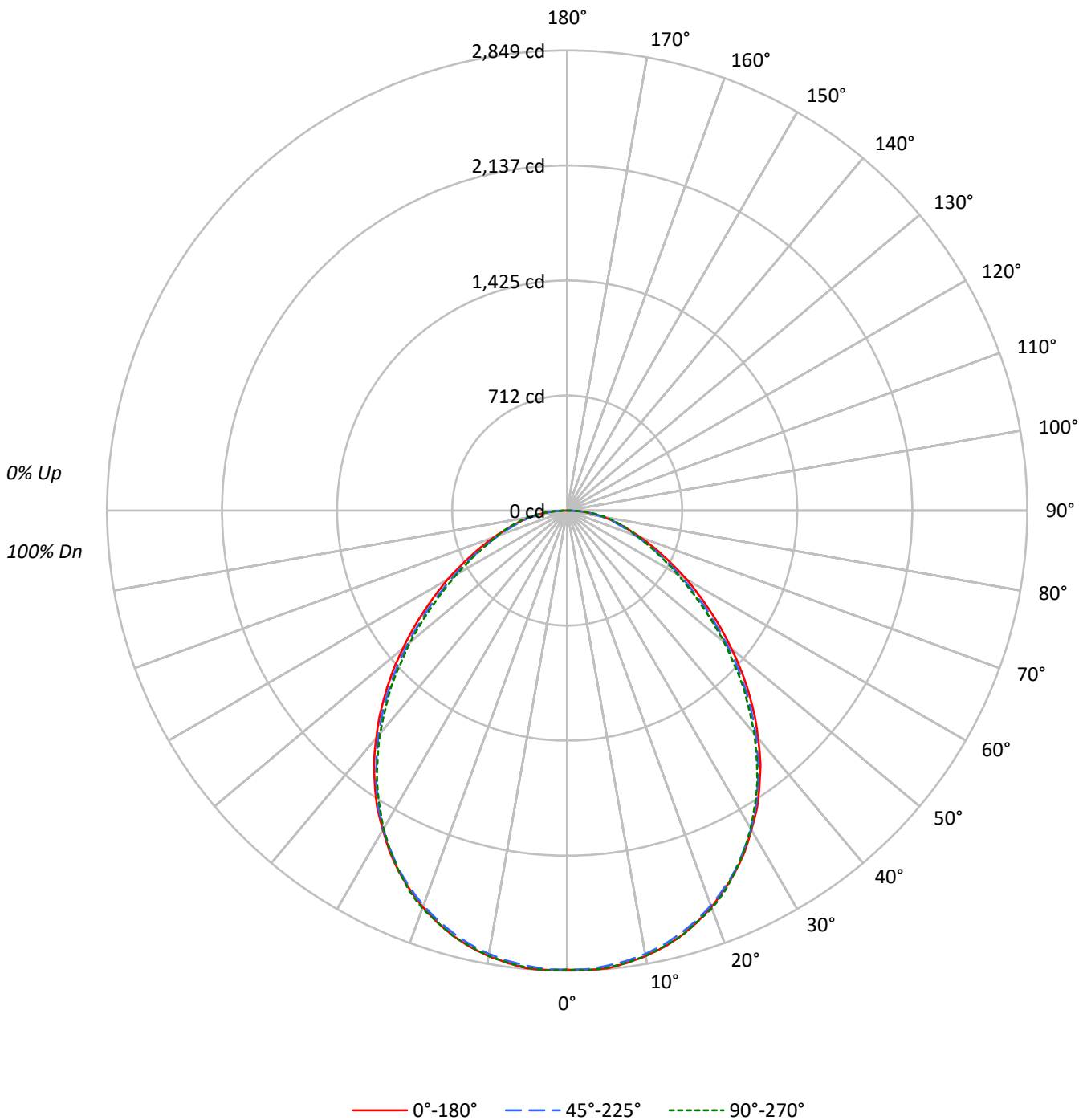
Input Watts (W): 47.988
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3825	3825	3825
5°	3842	3821	3837
10°	3827	3808	3825
15°	3797	3776	3800
20°	3741	3726	3753
25°	3660	3651	3658
30°	3544	3538	3530
35°	3411	3385	3371
40°	3228	3192	3166
45°	3020	2964	2928
50°	2775	2701	2655
55°	2531	2438	2367
60°	2299	2175	2119
65°	2070	1954	1921
70°	1896	1773	1822
75°	1772	1691	1815
80°	1758	1726	1896
85°	1792	1808	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	4.0
10°-20°	764.9	11.4
20°-30°	1130.0	16.9
30°-40°	1284.7	19.2
40°-50°	1199.7	17.9
50°-60°	933.0	13.9
60°-70°	619.1	9.3
70°-80°	358.3	5.4
80°-90°	130.3	1.9
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°	2164.0	32.4
0°-40°	3448.7	51.6
0°-60°	5581.4	83.4
0°-90°	6689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2843	2843	2843	2843	2843	
5°	2845	2830	2829	2834	2841	270
15°	2726	2712	2711	2710	2728	768
25°	2465	2455	2459	2454	2464	1134
35°	2076	2066	2061	2046	2052	1296
45°	1587	1575	1558	1538	1539	1223
55°	1079	1063	1039	1012	1009	968
65°	650	630	614	602	603	650
75°	341	332	325	340	349	365
85°	116	114	117	133	134	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2842.8	2842.8	2842.8	2842.8	2842.8
2.5°	2847.0	2838.6	2842.8	2839.7	2849.1
5°	2844.9	2830.3	2829.2	2834.5	2840.7
7.5°	2825.1	2809.4	2812.5	2812.5	2823.0
10°	2801.0	2785.3	2787.4	2788.5	2800.0
12.5°	2768.6	2752.9	2754.0	2752.9	2764.4
15°	2725.7	2712.1	2711.1	2710.0	2727.8
17.5°	2673.4	2654.6	2660.9	2661.9	2671.4
20°	2612.8	2598.2	2602.3	2601.3	2621.2
22.5°	2540.7	2530.2	2533.3	2531.3	2550.1
25°	2465.4	2454.9	2459.1	2453.9	2464.3
27.5°	2380.7	2373.4	2369.2	2366.1	2373.4
30°	2281.4	2277.2	2277.2	2263.6	2272.0
32.5°	2187.3	2173.7	2173.7	2168.5	2163.2
35°	2076.4	2066.0	2060.8	2046.1	2052.4
37.5°	1965.6	1941.6	1939.5	1928.0	1928.0
40°	1838.1	1824.5	1817.1	1804.6	1802.5
42.5°	1716.8	1703.2	1690.6	1669.7	1665.5
45°	1587.1	1574.6	1557.9	1538.0	1539.0
47.5°	1458.5	1440.8	1425.1	1401.0	1397.9
50°	1325.7	1313.2	1290.2	1269.3	1268.2
52.5°	1201.3	1181.5	1160.5	1135.5	1135.5
55°	1079.0	1063.3	1039.3	1012.1	1008.9
57.5°	961.9	947.3	920.1	900.2	895.0
60°	854.2	833.3	808.2	791.5	787.3
62.5°	746.5	727.7	708.9	692.1	691.1
65°	650.3	630.5	613.7	602.2	603.3
67.5°	563.5	546.8	528.0	524.9	525.9
70°	482.0	464.2	450.6	457.9	463.2
72.5°	404.6	395.2	385.8	396.3	403.6
75°	340.8	332.5	325.2	339.8	349.2
77.5°	282.3	276.0	275.0	287.5	295.9
80°	226.9	219.6	222.7	237.3	244.7
82.5°	172.5	167.3	168.3	186.1	191.3
85°	116.1	114.0	117.1	132.8	133.8
87.5°	61.7	61.7	63.8	73.2	70.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)