

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: P293272

Luminaire Tested: **24GR-LD5-72-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293272
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-LD5-72-F125-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7217.0 lumens
Efficiency: N/A
Efficacy: 135.7 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

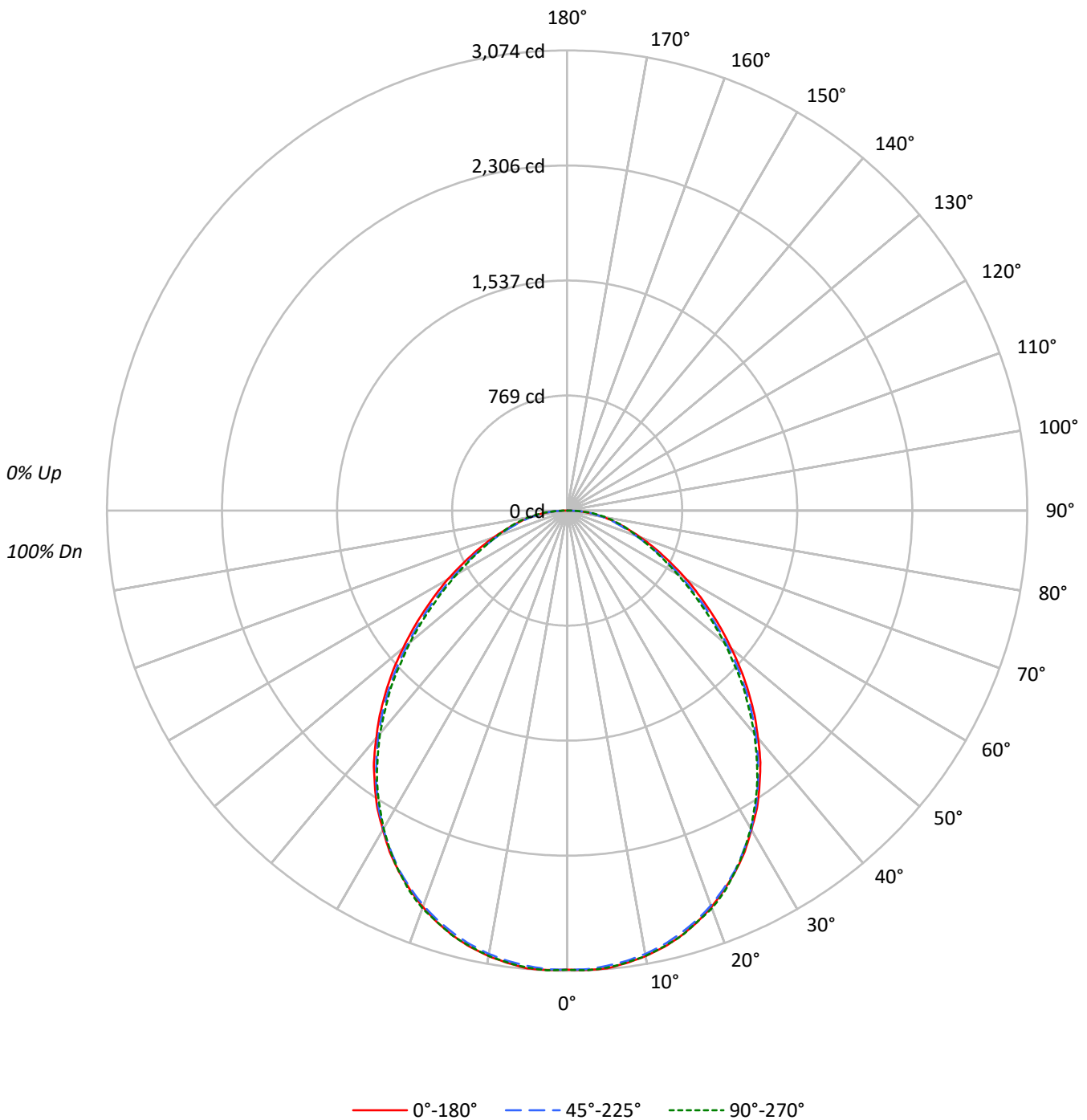
Input Watts (W): 53.196
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4127	4127	4127
5°	4146	4123	4140
10°	4129	4109	4127
15°	4097	4075	4100
20°	4036	4020	4049
25°	3949	3939	3947
30°	3824	3817	3808
35°	3680	3652	3637
40°	3483	3444	3416
45°	3258	3198	3160
50°	2994	2914	2864
55°	2731	2630	2554
60°	2480	2347	2286
65°	2234	2108	2072
70°	2046	1913	1966
75°	1912	1824	1959
80°	1897	1862	2046
85°	1933	1950	2229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	4.0
10°-20°	825.3	11.4
20°-30°	1219.2	16.9
30°-40°	1386.1	19.2
40°-50°	1294.4	17.9
50°-60°	1006.6	13.9
60°-70°	667.9	9.3
70°-80°	386.5	5.4
80°-90°	140.6	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°	2334.8	32.4
0°-40°	3720.9	51.6
0°-60°	6022.0	83.4
0°-90°	7217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3067	3067	3067	3067	3067	
5°	3070	3054	3053	3058	3065	291
15°	2941	2926	2925	2924	2943	829
25°	2660	2649	2653	2648	2659	1223
35°	2240	2229	2223	2208	2214	1399
45°	1712	1699	1681	1659	1660	1319
55°	1164	1147	1121	1092	1089	1044
65°	702	680	662	650	651	701
75°	368	359	351	367	377	393
85°	125	123	126	143	144	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3067.2	3067.2	3067.2	3067.2	3067.2
2.5°	3071.7	3062.7	3067.2	3063.8	3074.0
5°	3069.5	3053.7	3052.6	3058.2	3065.0
7.5°	3048.0	3031.1	3034.5	3034.5	3045.8
10°	3022.1	3005.2	3007.4	3008.6	3021.0
12.5°	2987.1	2970.2	2971.3	2970.2	2982.6
15°	2940.9	2926.2	2925.1	2924.0	2943.1
17.5°	2884.5	2864.2	2870.9	2872.1	2882.2
20°	2819.0	2803.3	2807.8	2806.6	2828.1
22.5°	2741.2	2729.9	2733.3	2731.1	2751.4
25°	2660.0	2648.7	2653.2	2647.6	2658.9
27.5°	2568.6	2560.7	2556.2	2552.8	2560.7
30°	2461.5	2456.9	2456.9	2442.3	2451.3
32.5°	2359.9	2345.3	2345.3	2339.6	2334.0
35°	2240.3	2229.1	2223.4	2207.6	2214.4
37.5°	2120.8	2094.8	2092.6	2080.2	2080.2
40°	1983.1	1968.5	1960.6	1947.0	1944.8
42.5°	1852.3	1837.6	1824.1	1801.5	1797.0
45°	1712.4	1698.9	1680.8	1659.4	1660.5
47.5°	1573.7	1554.5	1537.6	1511.6	1508.2
50°	1430.4	1416.9	1392.0	1369.5	1368.3
52.5°	1296.2	1274.7	1252.2	1225.1	1225.1
55°	1164.2	1147.2	1121.3	1092.0	1088.6
57.5°	1037.8	1022.0	992.7	971.3	965.6
60°	921.6	899.1	872.0	853.9	849.4
62.5°	805.4	785.1	764.8	746.8	745.7
65°	701.7	680.2	662.2	649.8	650.9
67.5°	608.0	590.0	569.7	566.3	567.4
70°	520.0	500.9	486.2	494.1	499.7
72.5°	436.6	426.4	416.3	427.5	435.4
75°	367.8	358.7	350.8	366.6	376.8
77.5°	304.6	297.8	296.7	310.2	319.2
80°	244.8	236.9	240.3	256.1	264.0
82.5°	186.1	180.5	181.6	200.8	206.4
85°	125.2	123.0	126.3	143.3	144.4
87.5°	66.6	66.6	68.8	79.0	75.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)