

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: P293323

Luminaire Tested: **24GR-LD5-72-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293323
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-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6146.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

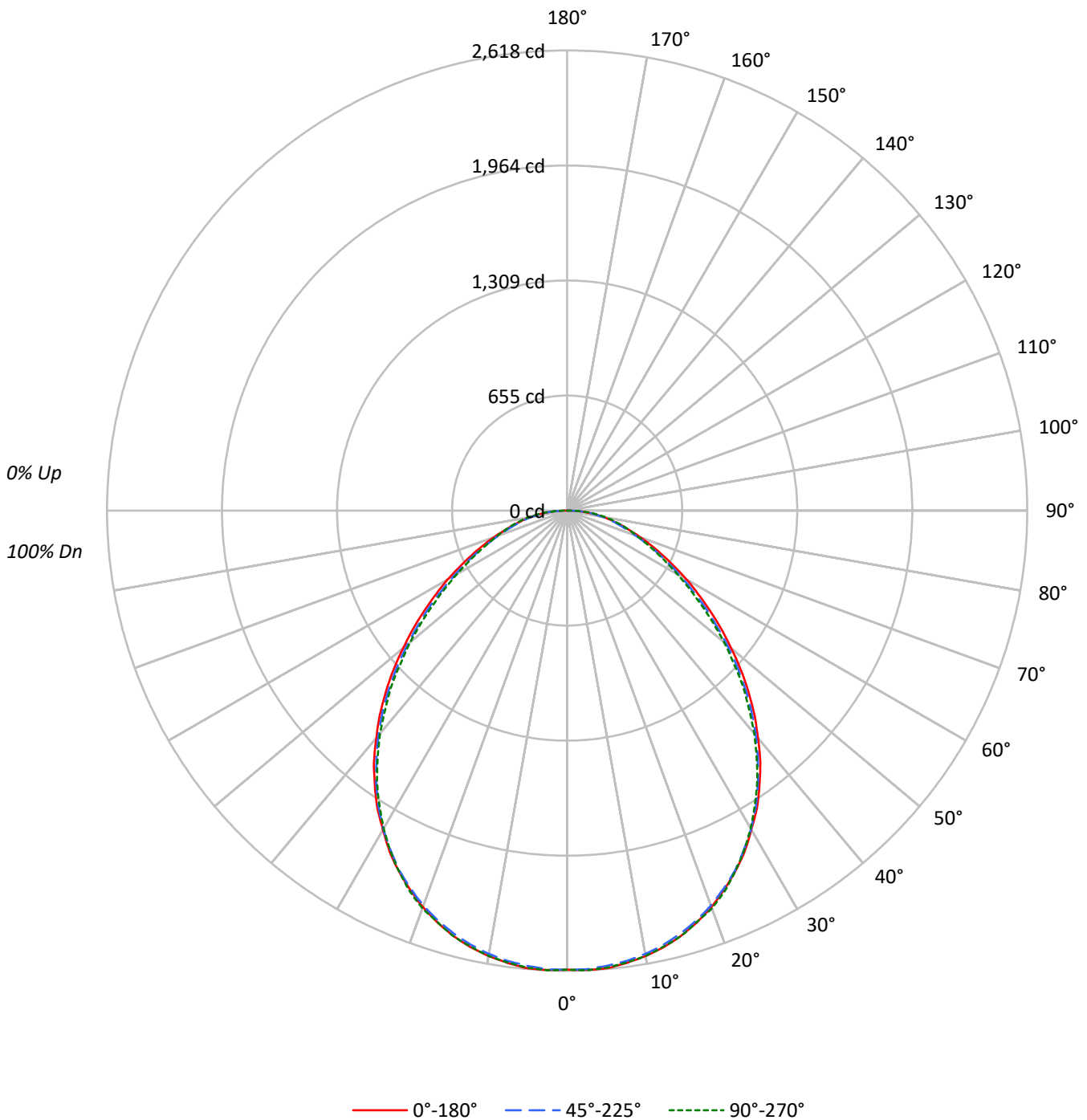
Input Watts (W): 53.543355
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3514	3514	3514
5°	3531	3511	3525
10°	3516	3499	3515
15°	3489	3470	3491
20°	3437	3424	3448
25°	3363	3354	3362
30°	3257	3251	3243
35°	3134	3110	3098
40°	2966	2933	2909
45°	2775	2724	2691
50°	2550	2482	2439
55°	2326	2240	2175
60°	2112	1998	1947
65°	1902	1795	1765
70°	1742	1629	1674
75°	1628	1553	1668
80°	1616	1585	1742
85°	1646	1661	1899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	4.0
10°-20°	702.8	11.4
20°-30°	1038.3	16.9
30°-40°	1180.4	19.2
40°-50°	1102.3	17.9
50°-60°	857.3	13.9
60°-70°	568.8	9.3
70°-80°	329.2	5.4
80°-90°	119.7	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°	1988.3	32.4
0°-40°	3168.7	51.6
0°-60°	5128.3	83.4
0°-90°	6146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2612	2612	2612	2612	2612	
5°	2614	2600	2600	2604	2610	248
15°	2504	2492	2491	2490	2506	706
25°	2265	2256	2260	2255	2264	1041
35°	1908	1898	1894	1880	1886	1191
45°	1458	1447	1431	1413	1414	1124
55°	991	977	955	930	927	889
65°	598	579	564	553	554	597
75°	313	306	299	312	321	335
85°	107	105	108	122	123	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2612.0	2612.0	2612.0	2612.0	2612.0
2.5°	2615.9	2608.2	2612.0	2609.2	2617.8
5°	2614.0	2600.5	2599.6	2604.4	2610.1
7.5°	2595.7	2581.3	2584.2	2584.2	2593.8
10°	2573.6	2559.2	2561.1	2562.1	2572.7
12.5°	2543.8	2529.4	2530.4	2529.4	2540.0
15°	2504.5	2492.0	2491.0	2490.0	2506.4
17.5°	2456.4	2439.1	2444.9	2445.9	2454.5
20°	2400.7	2387.3	2391.1	2390.1	2408.4
22.5°	2334.4	2324.8	2327.7	2325.8	2343.1
25°	2265.2	2255.6	2259.5	2254.7	2264.3
27.5°	2187.4	2180.7	2176.9	2174.0	2180.7
30°	2096.2	2092.3	2092.3	2079.8	2087.5
32.5°	2009.7	1997.2	1997.2	1992.4	1987.6
35°	1907.9	1898.3	1893.5	1880.0	1885.8
37.5°	1806.1	1784.0	1782.0	1771.5	1771.5
40°	1688.8	1676.4	1669.6	1658.1	1656.2
42.5°	1577.4	1564.9	1553.4	1534.2	1530.3
45°	1458.3	1446.8	1431.4	1413.1	1414.1
47.5°	1340.1	1323.8	1309.4	1287.3	1284.4
50°	1218.1	1206.6	1185.5	1166.2	1165.3
52.5°	1103.8	1085.6	1066.3	1043.3	1043.3
55°	991.4	977.0	954.9	929.9	927.0
57.5°	883.8	870.4	845.4	827.1	822.3
60°	784.9	765.7	742.6	727.2	723.4
62.5°	685.9	668.6	651.3	636.0	635.0
65°	597.5	579.3	563.9	553.3	554.3
67.5°	517.8	502.4	485.1	482.3	483.2
70°	442.9	426.5	414.0	420.8	425.6
72.5°	371.8	363.1	354.5	364.1	370.8
75°	313.2	305.5	298.8	312.2	320.9
77.5°	259.4	253.6	252.7	264.2	271.9
80°	208.5	201.7	204.6	218.1	224.8
82.5°	158.5	153.7	154.7	171.0	175.8
85°	106.6	104.7	107.6	122.0	123.0
87.5°	56.7	56.7	58.6	67.2	64.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)