

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: P293149

Luminaire Tested: **24GR-LD5-72-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293149
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-LD5-72-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6787.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

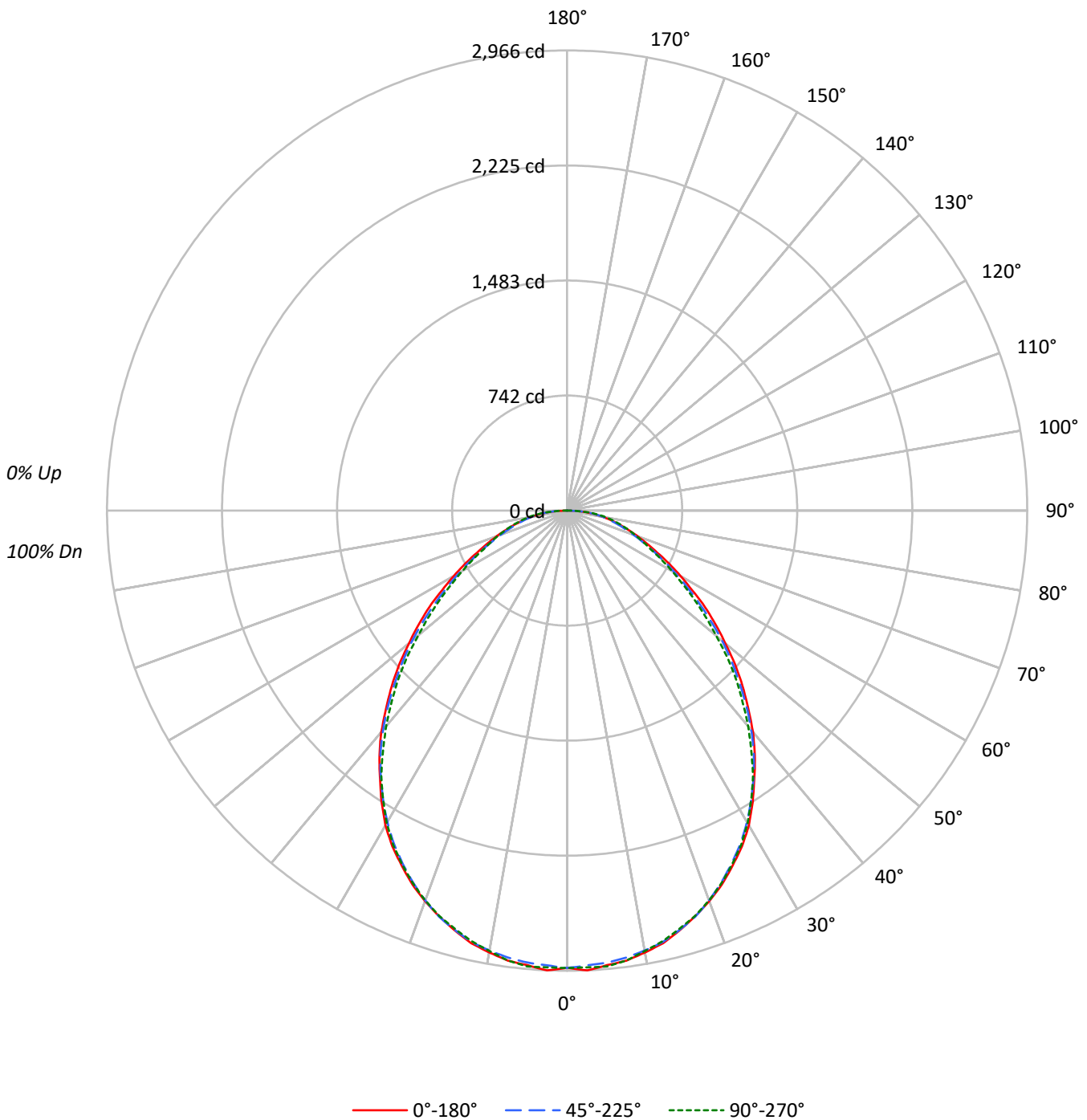
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3967	3967	3967
5°	3972	3950	3984
10°	3951	3934	3938
15°	3902	3898	3888
20°	3836	3828	3828
25°	3747	3726	3735
30°	3639	3602	3613
35°	3456	3440	3431
40°	3273	3243	3186
45°	3042	2989	2930
50°	2787	2725	2623
55°	2545	2430	2348
60°	2268	2158	2102
65°	2041	1934	1907
70°	1895	1779	1851
75°	1812	1732	1878
80°	1812	1812	2007
85°	1880	1902	2118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	4.1
10°-20°	787.9	11.6
20°-30°	1156.4	17.0
30°-40°	1307.3	19.3
40°-50°	1208.2	17.8
50°-60°	930.9	13.7
60°-70°	616.4	9.1
70°-80°	367.0	5.4
80°-90°	134.4	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°	2222.7	32.7
0°-40°	3530.0	52.0
0°-60°	5669.2	83.5
0°-90°	6787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2948	2948	2948	2948	2948	
5°	2941	2941	2924	2926	2950	279
15°	2801	2796	2798	2797	2791	789
25°	2524	2517	2510	2507	2516	1162
35°	2104	2101	2094	2084	2089	1317
45°	1599	1587	1571	1543	1540	1231
55°	1085	1062	1036	1008	1001	968
65°	641	631	608	602	599	643
75°	349	340	333	349	361	372
85°	122	115	123	136	137	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2948.1	2948.1	2948.1	2948.1	2948.1
2.5°	2966.3	2950.9	2934.1	2934.1	2946.7
5°	2941.1	2941.1	2924.3	2925.7	2949.5
7.5°	2925.7	2917.3	2906.1	2906.1	2924.3
10°	2892.1	2885.1	2879.5	2876.7	2882.3
12.5°	2855.7	2844.5	2848.7	2844.5	2843.1
15°	2801.1	2795.5	2798.3	2796.9	2791.3
17.5°	2742.3	2739.5	2745.1	2735.3	2739.5
20°	2679.3	2670.9	2673.7	2668.1	2673.7
22.5°	2607.9	2602.3	2595.3	2588.3	2599.5
25°	2524.0	2517.0	2510.0	2507.2	2515.6
27.5°	2440.0	2428.8	2419.0	2416.2	2428.8
30°	2342.0	2329.4	2318.2	2315.4	2325.2
32.5°	2225.8	2223.0	2209.0	2203.4	2207.6
35°	2104.0	2101.2	2094.2	2084.4	2088.6
37.5°	1987.8	1986.4	1976.6	1959.8	1948.6
40°	1863.2	1853.4	1846.4	1822.6	1814.2
42.5°	1726.0	1723.2	1710.6	1684.0	1674.2
45°	1598.6	1587.4	1570.6	1542.6	1539.8
47.5°	1467.1	1451.7	1436.3	1401.3	1399.9
50°	1331.3	1320.1	1301.9	1266.9	1252.9
52.5°	1205.3	1189.9	1164.7	1131.1	1124.1
55°	1084.9	1062.5	1035.9	1007.9	1000.9
57.5°	956.1	946.3	914.1	891.7	883.3
60°	842.7	834.3	802.1	781.1	781.1
62.5°	740.5	727.9	699.9	685.9	685.9
65°	641.1	631.3	607.5	601.9	599.1
67.5°	555.7	543.1	526.3	524.9	531.9
70°	481.6	466.2	452.2	466.2	470.4
72.5°	411.6	401.8	389.2	407.4	415.8
75°	348.6	340.2	333.2	348.6	361.2
77.5°	291.2	282.8	282.8	299.6	310.8
80°	233.8	228.2	233.8	247.8	259.0
82.5°	179.2	175.0	182.0	196.0	203.0
85°	121.8	114.8	123.2	135.8	137.2
87.5°	57.4	56.0	61.6	70.0	68.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)