

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: P293395

Luminaire Tested: **24GR-LD5-72-F125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293395
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-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5666.0 lumens
Efficiency: N/A
Efficacy: 108.0 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

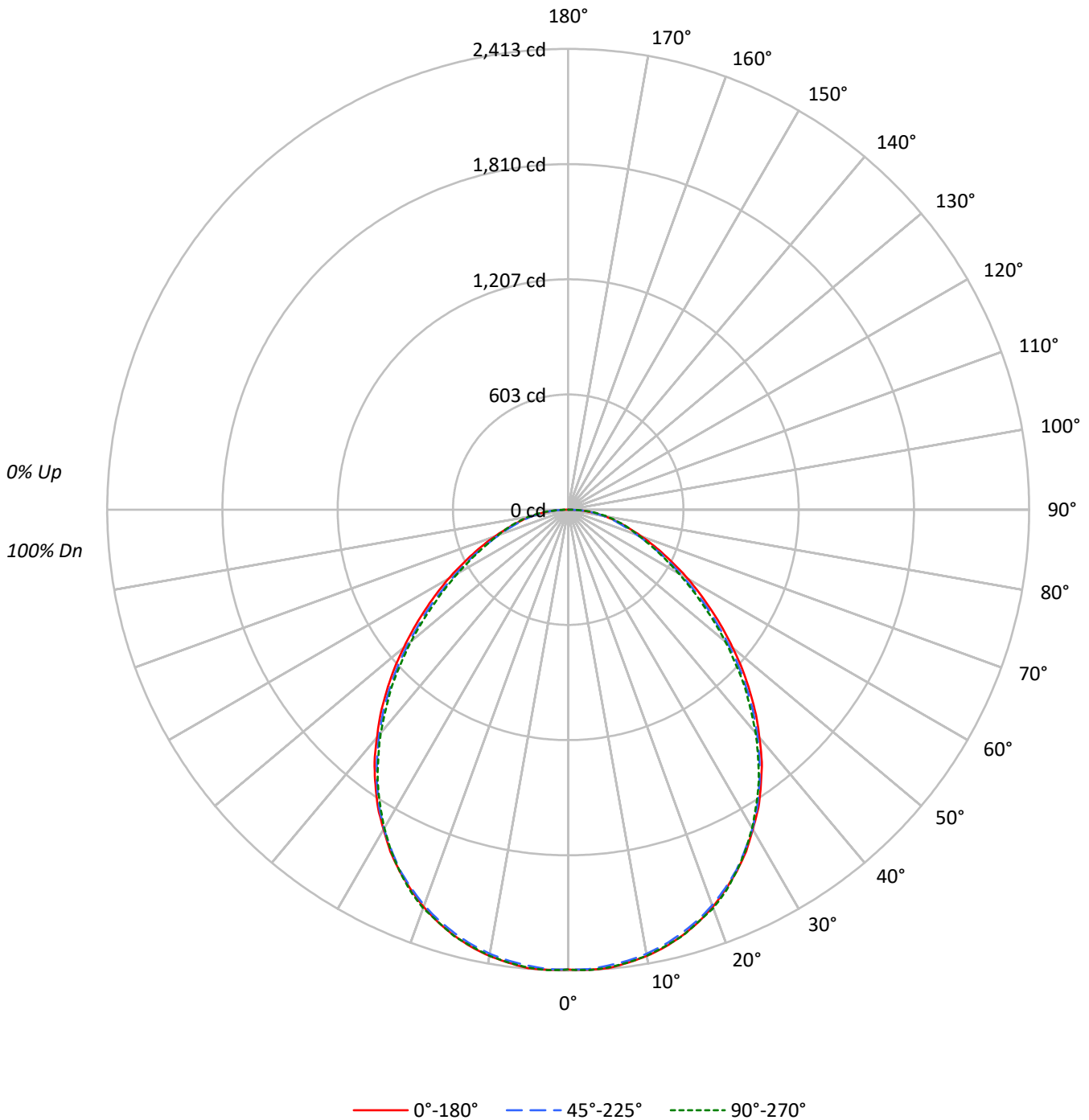
Input Watts (W): 52.452
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3240	3240	3240
5°	3255	3237	3250
10°	3242	3226	3240
15°	3216	3199	3219
20°	3169	3156	3179
25°	3100	3092	3099
30°	3002	2997	2990
35°	2889	2867	2856
40°	2735	2703	2682
45°	2558	2511	2481
50°	2351	2288	2249
55°	2144	2065	2005
60°	1947	1842	1795
65°	1754	1655	1627
70°	1606	1502	1543
75°	1501	1432	1538
80°	1489	1461	1605
85°	1518	1531	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	4.0
10°-20°	647.9	11.4
20°-30°	957.2	16.9
30°-40°	1088.2	19.2
40°-50°	1016.3	17.9
50°-60°	790.3	13.9
60°-70°	524.4	9.3
70°-80°	303.5	5.4
80°-90°	110.3	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°	1833.0	32.4
0°-40°	2921.2	51.6
0°-60°	4727.8	83.4
0°-90°	5666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2408	2408	2408	2408	2408	
5°	2410	2397	2396	2401	2406	229
15°	2309	2297	2296	2296	2311	650
25°	2088	2080	2083	2079	2087	960
35°	1759	1750	1746	1733	1738	1098
45°	1344	1334	1320	1303	1304	1036
55°	914	901	880	857	855	820
65°	551	534	520	510	511	551
75°	289	282	275	288	296	309
85°	98	96	99	112	113	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2408.0	2408.0	2408.0	2408.0	2408.0
2.5°	2411.6	2404.5	2408.0	2405.4	2413.4
5°	2409.8	2397.4	2396.5	2401.0	2406.3
7.5°	2393.0	2379.7	2382.4	2382.4	2391.2
10°	2372.6	2359.3	2361.1	2362.0	2371.7
12.5°	2345.2	2331.9	2332.8	2331.9	2341.6
15°	2308.9	2297.3	2296.5	2295.6	2310.6
17.5°	2264.6	2248.6	2253.9	2254.8	2262.8
20°	2213.2	2200.8	2204.4	2203.5	2220.3
22.5°	2152.1	2143.2	2145.9	2144.1	2160.1
25°	2088.3	2079.5	2083.0	2078.6	2087.4
27.5°	2016.6	2010.4	2006.9	2004.2	2010.4
30°	1932.5	1928.9	1928.9	1917.4	1924.5
32.5°	1852.8	1841.2	1841.2	1836.8	1832.4
35°	1758.9	1750.0	1745.6	1733.2	1738.5
37.5°	1665.0	1644.6	1642.9	1633.1	1633.1
40°	1557.0	1545.4	1539.2	1528.6	1526.8
42.5°	1454.2	1442.7	1432.1	1414.4	1410.8
45°	1344.4	1333.8	1319.6	1302.8	1303.7
47.5°	1235.5	1220.4	1207.1	1186.8	1184.1
50°	1123.0	1112.4	1092.9	1075.2	1074.3
52.5°	1017.6	1000.8	983.1	961.8	961.8
55°	914.0	900.7	880.3	857.3	854.6
57.5°	814.8	802.4	779.4	762.5	758.1
60°	723.6	705.9	684.6	670.4	666.9
62.5°	632.3	616.4	600.5	586.3	585.4
65°	550.9	534.0	519.9	510.1	511.0
67.5°	477.4	463.2	447.2	444.6	445.5
70°	408.3	393.2	381.7	387.9	392.3
72.5°	342.7	334.8	326.8	335.7	341.9
75°	288.7	281.6	275.4	287.8	295.8
77.5°	239.1	233.8	232.9	243.6	250.6
80°	192.2	186.0	188.6	201.0	207.2
82.5°	146.1	141.7	142.6	157.6	162.1
85°	98.3	96.5	99.2	112.5	113.4
87.5°	52.3	52.3	54.0	62.0	59.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)