

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: P293754

Luminaire Tested: **24GR-LD5-48-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5078.0 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

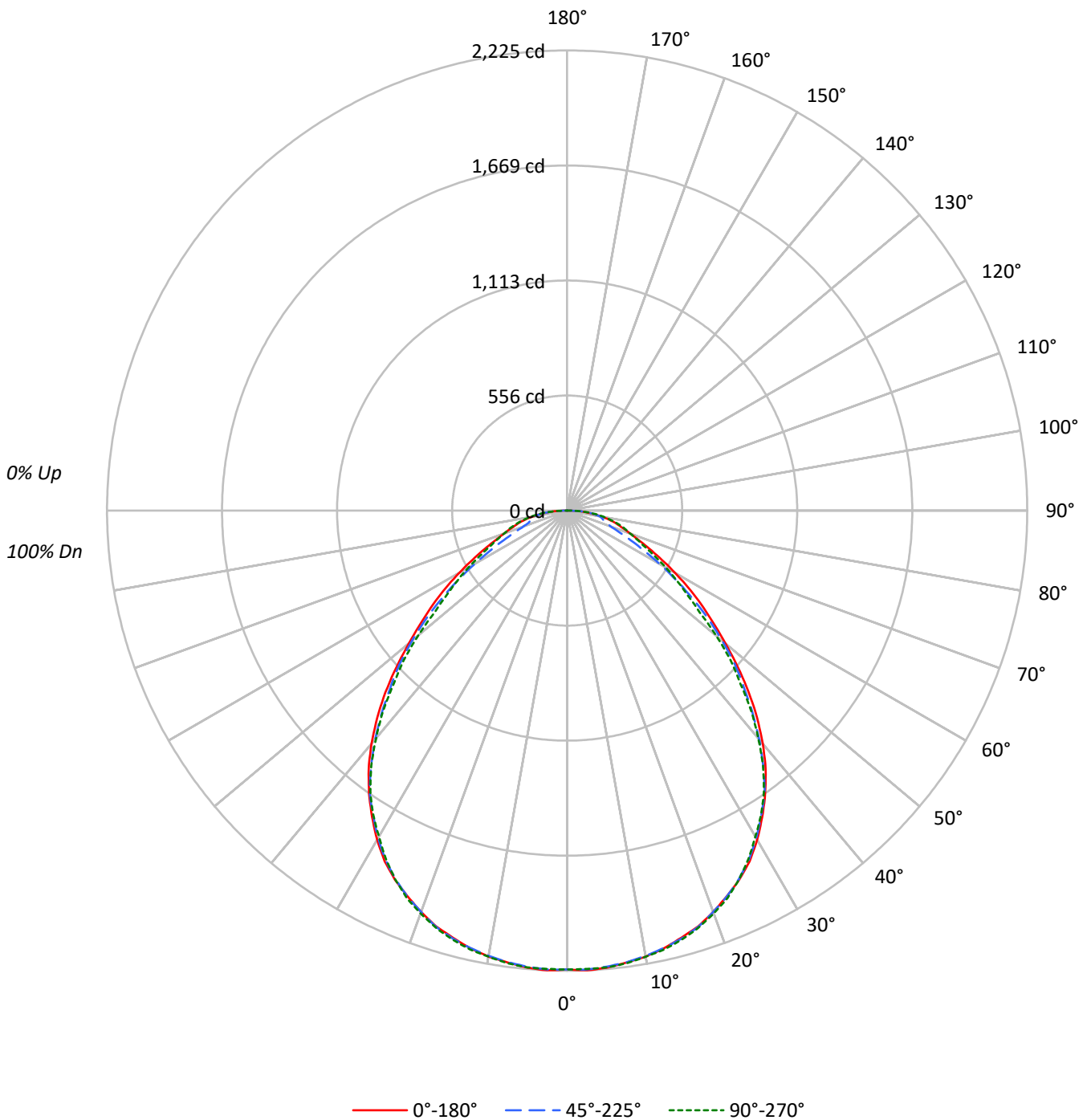
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2986	2986	2986
5°	2996	2989	2995
10°	2992	2987	2993
15°	2977	2983	2990
20°	2957	2957	2968
25°	2924	2918	2920
30°	2855	2841	2827
35°	2743	2735	2725
40°	2584	2537	2525
45°	2363	2299	2257
50°	2089	2048	1968
55°	1858	1732	1665
60°	1618	1386	1486
65°	1397	1074	1314
70°	1275	879	1271
75°	1285	947	1351
80°	1338	1234	1424
85°	1394	1468	1578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	4.1
10°-20°	603.7	11.9
20°-30°	903.6	17.8
30°-40°	1032.5	20.3
40°-50°	933.5	18.4
50°-60°	671.6	13.2
60°-70°	389.4	7.7
70°-80°	231.0	4.5
80°-90°	102.3	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°	1717.8	33.8
0°-40°	2750.3	54.2
0°-60°	4355.4	85.8
0°-90°	5078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2219	2219	2219	2219	2219	
5°	2218	2215	2213	2210	2217	211
15°	2137	2141	2141	2139	2147	603
25°	1969	1967	1965	1961	1967	905
35°	1670	1662	1665	1645	1659	1041
45°	1242	1221	1208	1197	1186	954
55°	792	777	738	719	710	709
65°	439	390	338	377	413	443
75°	247	207	182	225	260	261
85°	90	97	95	109	102	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2218.9	2218.9	2218.9	2218.9	2218.9
2.5°	2225.2	2217.3	2221.3	2218.9	2218.1
5°	2218.1	2214.9	2213.4	2210.2	2217.3
7.5°	2203.9	2201.5	2202.3	2203.1	2207.8
10°	2189.6	2185.6	2186.4	2188.0	2190.4
12.5°	2167.4	2165.0	2165.8	2167.4	2173.0
15°	2137.3	2141.3	2141.3	2138.9	2146.8
17.5°	2107.2	2106.4	2110.4	2103.3	2114.3
20°	2065.2	2066.0	2065.2	2066.0	2073.1
22.5°	2017.7	2021.7	2019.3	2019.3	2027.2
25°	1969.4	1967.0	1965.4	1961.4	1967.0
27.5°	1911.5	1906.8	1902.8	1894.9	1898.9
30°	1837.9	1838.7	1828.4	1821.2	1819.6
32.5°	1755.5	1755.5	1746.0	1740.4	1745.2
35°	1669.9	1662.0	1665.2	1644.6	1658.8
37.5°	1577.2	1564.6	1557.4	1550.3	1555.1
40°	1471.1	1454.5	1444.2	1429.9	1437.8
42.5°	1359.4	1338.8	1326.1	1315.8	1319.0
45°	1242.1	1220.8	1208.1	1197.0	1185.9
47.5°	1118.6	1105.1	1098.8	1084.5	1071.8
50°	998.2	993.4	978.3	966.5	940.3
52.5°	888.0	884.1	860.3	840.5	807.2
55°	792.2	777.1	738.3	719.3	709.8
57.5°	694.7	670.2	623.4	621.1	627.4
60°	601.3	571.2	514.9	527.6	552.2
62.5°	516.5	471.3	417.5	447.6	476.9
65°	438.9	389.8	337.5	377.1	412.7
67.5°	374.7	325.6	271.7	324.8	366.0
70°	324.0	274.1	223.4	284.4	323.2
72.5°	282.0	236.9	194.9	252.7	293.1
75°	247.2	206.8	182.2	225.0	259.8
77.5°	212.3	179.8	174.3	200.4	221.8
80°	172.7	157.6	159.2	175.9	183.8
82.5°	129.1	129.9	133.9	147.3	144.2
85°	90.3	97.4	95.1	109.3	102.2
87.5°	49.9	54.7	51.5	62.6	56.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)