

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: P293750

Luminaire Tested: **24GR-LD5-48-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293750
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4935.0 lumens
Efficiency: N/A
Efficacy: 147.4 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

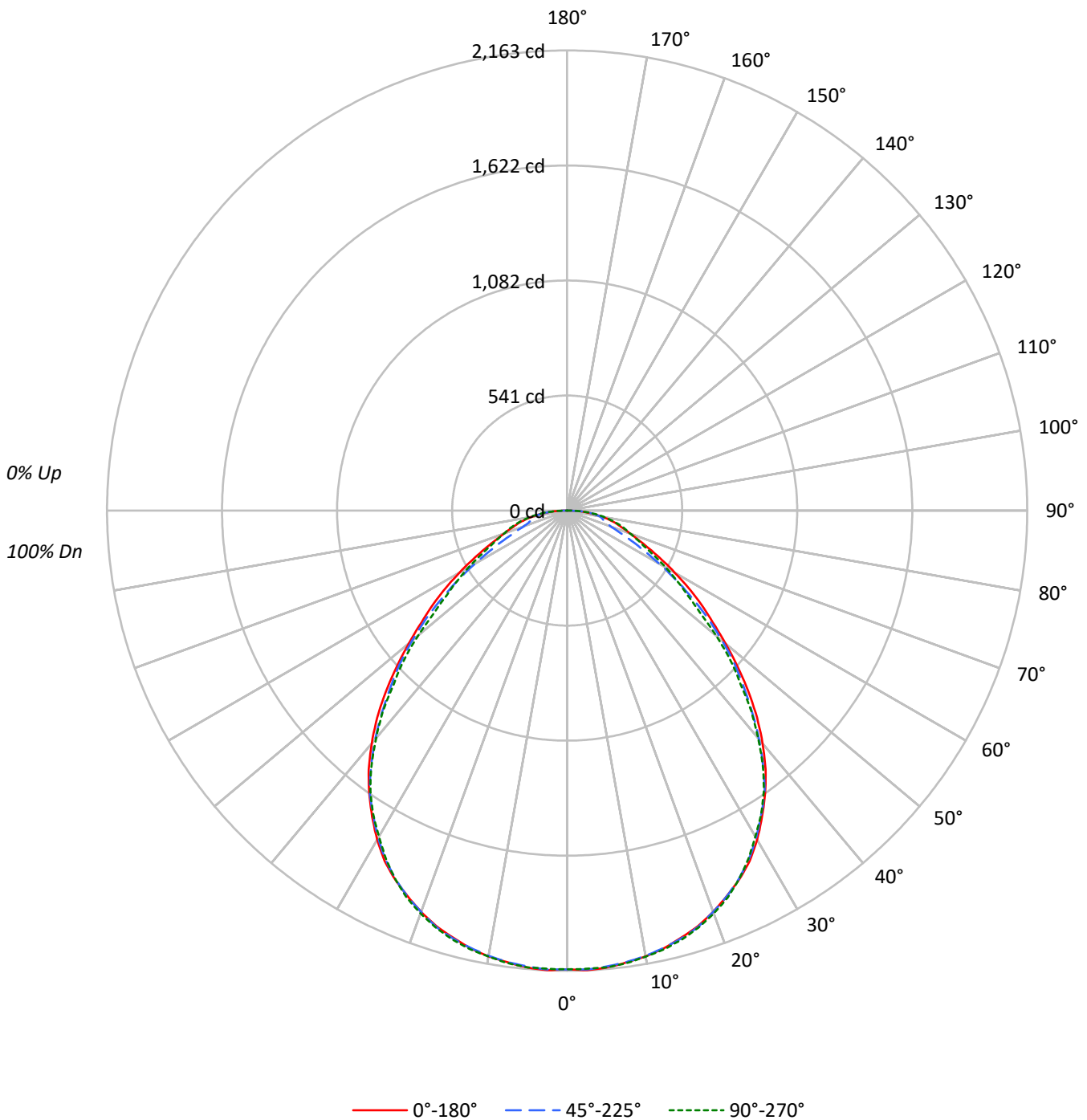
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2901	2901	2901
5°	2912	2905	2910
10°	2907	2903	2908
15°	2893	2899	2906
20°	2874	2874	2885
25°	2841	2836	2838
30°	2775	2761	2747
35°	2666	2658	2648
40°	2511	2465	2454
45°	2297	2234	2193
50°	2030	1990	1913
55°	1806	1683	1618
60°	1572	1347	1444
65°	1358	1044	1277
70°	1239	854	1236
75°	1249	921	1313
80°	1300	1199	1384
85°	1355	1426	1533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	4.1
10°-20°	586.7	11.9
20°-30°	878.2	17.8
30°-40°	1003.4	20.3
40°-50°	907.2	18.4
50°-60°	652.7	13.2
60°-70°	378.4	7.7
70°-80°	224.5	4.5
80°-90°	99.4	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°	1669.4	33.8
0°-40°	2672.8	54.2
0°-60°	4232.7	85.8
0°-90°	4935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2156	2156	2156	2156	2156	
5°	2156	2153	2151	2148	2155	205
15°	2077	2081	2081	2079	2086	586
25°	1914	1912	1910	1906	1912	880
35°	1623	1615	1618	1598	1612	1012
45°	1207	1186	1174	1163	1152	927
55°	770	755	718	699	690	689
65°	426	379	328	366	401	431
75°	240	201	177	219	252	254
85°	88	95	92	106	99	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2156.4	2156.4	2156.4	2156.4	2156.4
2.5°	2162.6	2154.9	2158.7	2156.4	2155.7
5°	2155.7	2152.6	2151.0	2148.0	2154.9
7.5°	2141.8	2139.5	2140.3	2141.0	2145.6
10°	2127.9	2124.1	2124.9	2126.4	2128.7
12.5°	2106.4	2104.1	2104.8	2106.4	2111.8
15°	2077.1	2081.0	2081.0	2078.7	2086.4
17.5°	2047.9	2047.1	2051.0	2044.0	2054.8
20°	2007.1	2007.8	2007.1	2007.8	2014.8
22.5°	1960.9	1964.7	1962.4	1962.4	1970.1
25°	1913.9	1911.6	1910.1	1906.2	1911.6
27.5°	1857.7	1853.1	1849.2	1841.5	1845.4
30°	1786.1	1786.9	1776.9	1769.9	1768.4
32.5°	1706.0	1706.0	1696.8	1691.4	1696.0
35°	1622.9	1615.2	1618.3	1598.3	1612.1
37.5°	1532.8	1520.5	1513.6	1506.6	1511.3
40°	1429.7	1413.5	1403.5	1389.6	1397.3
42.5°	1321.1	1301.1	1288.8	1278.8	1281.8
45°	1207.2	1186.4	1174.1	1163.3	1152.5
47.5°	1087.1	1074.0	1067.8	1054.0	1041.6
50°	970.0	965.4	950.8	939.2	913.8
52.5°	863.0	859.2	836.1	816.8	784.5
55°	769.9	755.2	717.5	699.0	689.8
57.5°	675.2	651.3	605.9	603.6	609.7
60°	584.3	555.1	500.4	512.7	536.6
62.5°	502.0	458.1	405.7	435.0	463.5
65°	426.5	378.8	328.0	366.5	401.1
67.5°	364.2	316.4	264.1	315.6	355.7
70°	314.9	266.4	217.1	276.4	314.1
72.5°	274.1	230.2	189.4	245.6	284.9
75°	240.2	200.9	177.1	218.6	252.5
77.5°	206.3	174.8	169.4	194.8	215.6
80°	167.8	153.2	154.7	170.9	178.6
82.5°	125.5	126.3	130.1	143.2	140.1
85°	87.8	94.7	92.4	106.2	99.3
87.5°	48.5	53.1	50.0	60.8	54.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)