

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: P293755

Luminaire Tested: **24GR-LD5-56-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293755
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-LD5-56-A125-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5180.0 lumens
Efficiency: N/A
Efficacy: 132.9 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

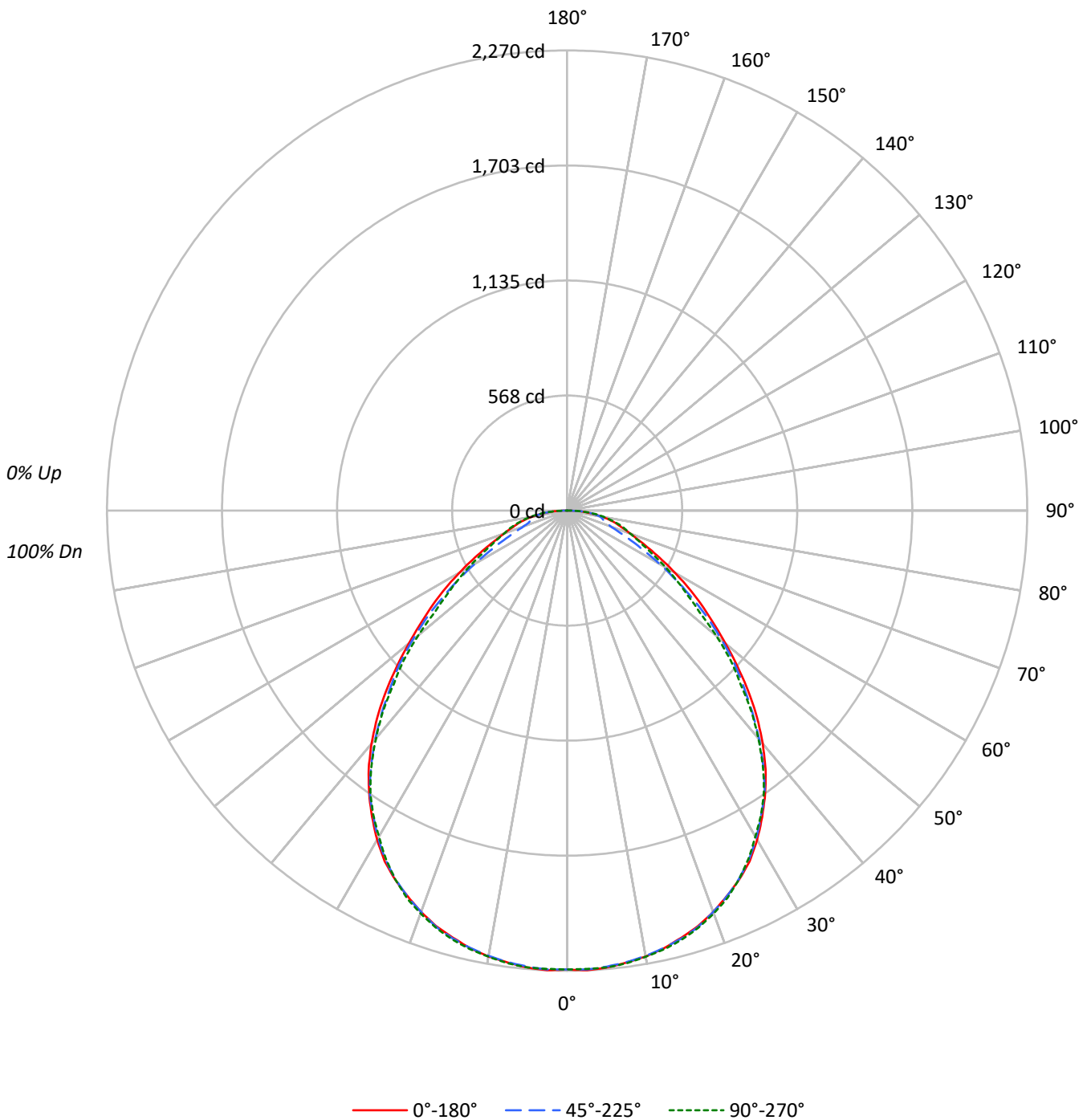
Input Watts (W): 38.967
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3046	3046	3046
5°	3056	3049	3055
10°	3052	3047	3053
15°	3037	3043	3050
20°	3016	3016	3028
25°	2982	2976	2979
30°	2913	2898	2884
35°	2798	2790	2780
40°	2636	2588	2576
45°	2411	2345	2302
50°	2131	2089	2008
55°	1896	1767	1699
60°	1650	1414	1516
65°	1425	1096	1340
70°	1300	897	1297
75°	1311	966	1378
80°	1365	1258	1453
85°	1422	1497	1609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	4.1
10°-20°	615.8	11.9
20°-30°	921.8	17.8
30°-40°	1053.3	20.3
40°-50°	952.3	18.4
50°-60°	685.1	13.2
60°-70°	397.2	7.7
70°-80°	235.6	4.5
80°-90°	104.3	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°	1752.3	33.8
0°-40°	2805.5	54.2
0°-60°	4442.9	85.8
0°-90°	5180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2264	2264	2264	2264	2264	
5°	2263	2259	2258	2255	2262	215
15°	2180	2184	2184	2182	2190	616
25°	2009	2006	2005	2001	2006	924
35°	1704	1695	1699	1678	1692	1062
45°	1267	1245	1232	1221	1210	973
55°	808	793	753	734	724	723
65°	448	398	344	385	421	452
75°	252	211	186	230	265	266
85°	92	99	97	112	104	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2263.5	2263.5	2263.5	2263.5	2263.5
2.5°	2269.9	2261.9	2265.9	2263.5	2262.7
5°	2262.7	2259.4	2257.8	2254.6	2261.9
7.5°	2248.1	2245.7	2246.5	2247.3	2252.2
10°	2233.6	2229.5	2230.3	2232.0	2234.4
12.5°	2211.0	2208.5	2209.3	2211.0	2216.6
15°	2180.2	2184.3	2184.3	2181.9	2189.9
17.5°	2149.5	2148.7	2152.8	2145.5	2156.8
20°	2106.7	2107.5	2106.7	2107.5	2114.8
22.5°	2058.2	2062.3	2059.8	2059.8	2067.9
25°	2008.9	2006.5	2004.9	2000.8	2006.5
27.5°	1949.9	1945.1	1941.0	1933.0	1937.0
30°	1874.8	1875.6	1865.1	1857.8	1856.2
32.5°	1790.7	1790.7	1781.0	1775.4	1780.2
35°	1703.5	1695.4	1698.6	1677.6	1692.2
37.5°	1608.9	1596.0	1588.7	1581.4	1586.3
40°	1500.6	1483.7	1473.2	1458.6	1466.7
42.5°	1386.7	1365.7	1352.8	1342.2	1345.5
45°	1267.1	1245.3	1232.3	1221.0	1209.7
47.5°	1141.0	1127.3	1120.8	1106.3	1093.4
50°	1018.2	1013.4	998.0	985.9	959.2
52.5°	905.9	901.8	877.6	857.4	823.5
55°	808.1	792.7	753.1	733.8	724.1
57.5°	708.7	683.7	636.0	633.5	640.0
60°	613.3	582.6	525.3	538.2	563.2
62.5°	526.9	480.8	425.9	456.6	486.5
65°	447.7	397.6	344.2	384.7	421.0
67.5°	382.2	332.1	277.2	331.3	373.3
70°	330.5	279.6	227.9	290.1	329.7
72.5°	287.7	241.6	198.8	257.8	299.0
75°	252.1	210.9	185.9	229.5	265.1
77.5°	216.6	183.4	177.8	204.4	226.3
80°	176.2	160.8	162.4	179.4	187.5
82.5°	131.7	132.5	136.6	150.3	147.1
85°	92.1	99.4	97.0	111.5	104.2
87.5°	50.9	55.8	52.5	63.8	57.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)