

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: P293760

Luminaire Tested: **24GR-LD5-56-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293760
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5813.0 lumens
Efficiency: N/A
Efficacy: 145.7 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

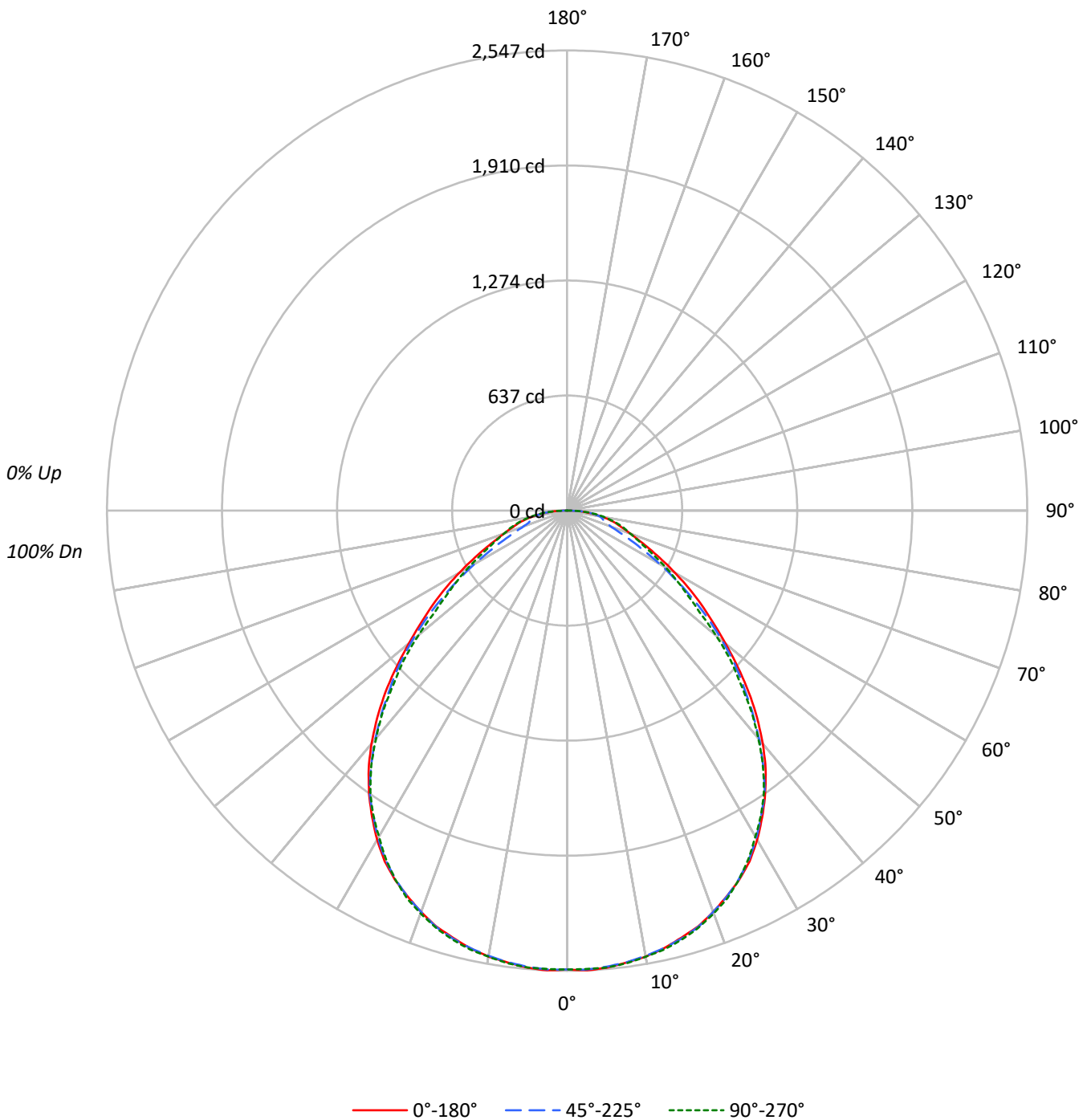
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3418	3418	3418
5°	3430	3422	3428
10°	3424	3420	3426
15°	3408	3414	3423
20°	3385	3385	3398
25°	3347	3340	3343
30°	3269	3252	3236
35°	3140	3131	3119
40°	2958	2904	2891
45°	2706	2631	2583
50°	2392	2344	2253
55°	2127	1983	1906
60°	1852	1586	1701
65°	1599	1230	1504
70°	1459	1006	1456
75°	1471	1084	1546
80°	1532	1413	1630
85°	1596	1680	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	4.1
10°-20°	691.0	11.9
20°-30°	1034.4	17.8
30°-40°	1182.0	20.3
40°-50°	1068.6	18.4
50°-60°	768.8	13.2
60°-70°	445.7	7.7
70°-80°	264.4	4.5
80°-90°	117.1	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°	1966.4	33.8
0°-40°	3148.4	54.2
0°-60°	4985.8	85.8
0°-90°	5813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2540	2540	2540	2540	2540	
5°	2539	2536	2534	2530	2538	241
15°	2447	2451	2451	2448	2458	691
25°	2254	2252	2250	2245	2252	1036
35°	1912	1903	1906	1883	1899	1192
45°	1422	1398	1383	1370	1358	1092
55°	907	890	845	823	812	811
65°	502	446	386	432	472	507
75°	283	237	209	258	297	299
85°	103	112	109	125	117	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2540.1	2540.1	2540.1	2540.1	2540.1
2.5°	2547.3	2538.3	2542.8	2540.1	2539.2
5°	2539.2	2535.5	2533.7	2530.1	2538.3
7.5°	2522.8	2520.1	2521.0	2521.9	2527.4
10°	2506.5	2502.0	2502.9	2504.7	2507.4
12.5°	2481.1	2478.4	2479.3	2481.1	2487.5
15°	2446.7	2451.2	2451.2	2448.5	2457.6
17.5°	2412.2	2411.3	2415.8	2407.7	2420.4
20°	2364.2	2365.1	2364.2	2365.1	2373.2
22.5°	2309.7	2314.3	2311.6	2311.6	2320.6
25°	2254.4	2251.7	2249.9	2245.4	2251.7
27.5°	2188.2	2182.8	2178.2	2169.2	2173.7
30°	2103.9	2104.8	2093.0	2084.8	2083.0
32.5°	2009.6	2009.6	1998.7	1992.3	1997.8
35°	1911.6	1902.6	1906.2	1882.6	1898.9
37.5°	1805.5	1791.0	1782.9	1774.7	1780.1
40°	1684.0	1665.0	1653.2	1636.9	1645.9
42.5°	1556.1	1532.6	1518.1	1506.3	1509.9
45°	1421.9	1397.5	1382.9	1370.2	1357.6
47.5°	1280.5	1265.1	1257.8	1241.5	1227.0
50°	1142.6	1137.2	1120.0	1106.4	1076.4
52.5°	1016.6	1012.0	984.8	962.2	924.1
55°	906.8	889.6	845.2	823.4	812.5
57.5°	795.3	767.2	713.7	711.0	718.2
60°	688.3	653.8	589.5	604.0	632.1
62.5°	591.3	539.6	477.9	512.4	545.9
65°	502.4	446.2	386.3	431.7	472.5
67.5°	428.9	372.7	311.0	371.8	419.0
70°	370.9	313.8	255.7	325.6	370.0
72.5°	322.8	271.1	223.1	289.3	335.5
75°	282.9	236.7	208.6	257.5	297.4
77.5°	243.0	205.9	199.5	229.4	253.9
80°	197.7	180.5	182.3	201.3	210.4
82.5°	147.8	148.7	153.3	168.7	165.0
85°	103.4	111.5	108.8	125.1	117.0
87.5°	57.1	62.6	58.9	71.6	64.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)