

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: P293911

Luminaire Tested: **24GR-LD5-85-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293911
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-LD5-85-A125-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7335.0 lumens
Efficiency: N/A
Efficacy: 116.2 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

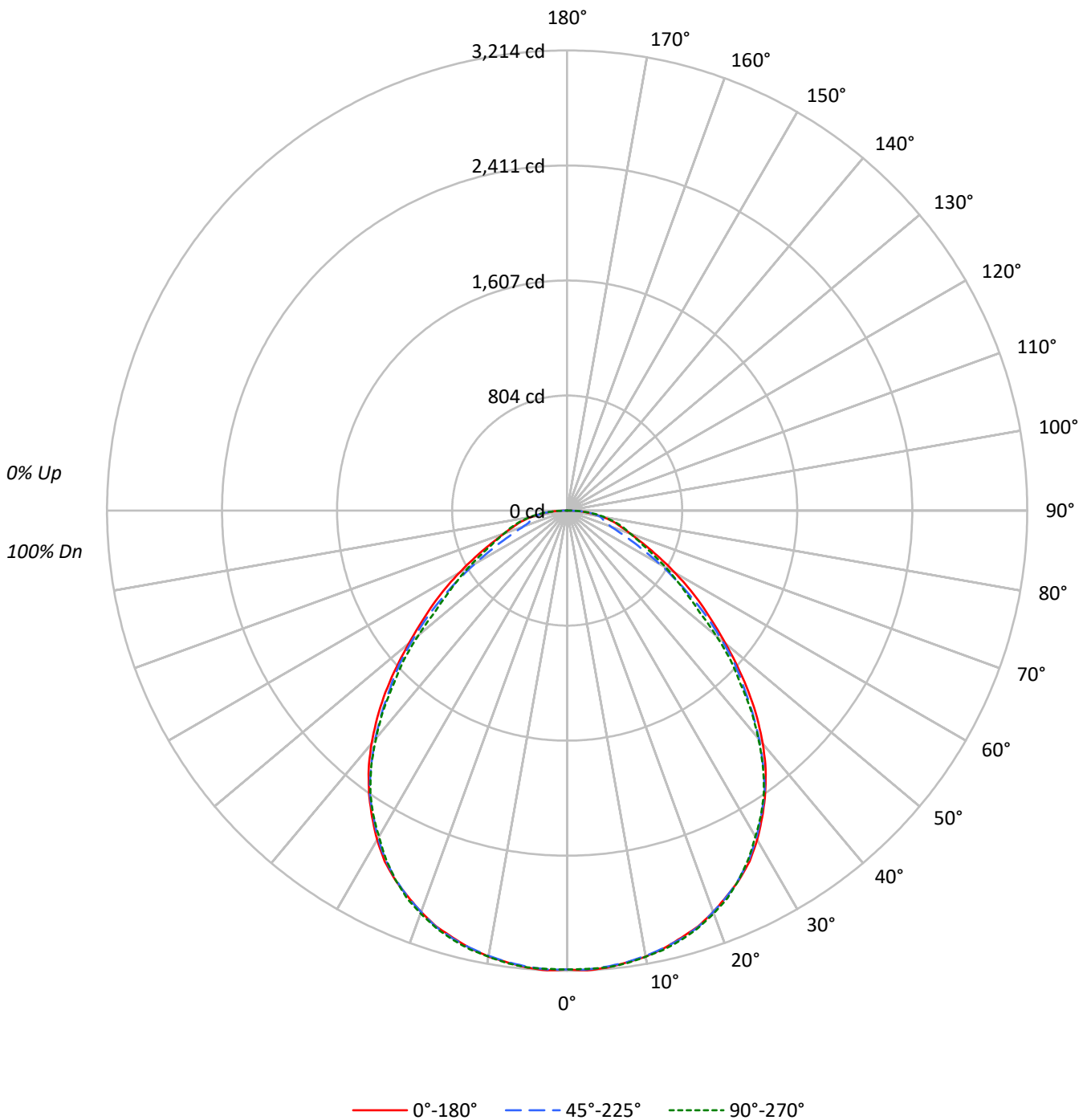
Input Watts (W): 63.147
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4312	4312	4312
5°	4327	4318	4326
10°	4321	4315	4323
15°	4300	4308	4320
20°	4271	4271	4288
25°	4223	4215	4218
30°	4124	4103	4084
35°	3962	3951	3936
40°	3732	3664	3648
45°	3414	3320	3260
50°	3018	2958	2843
55°	2684	2502	2405
60°	2337	2002	2146
65°	2018	1552	1898
70°	1841	1269	1837
75°	1856	1368	1951
80°	1933	1782	2057
85°	2013	2120	2279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.0	4.1
10°-20°	872.0	11.9
20°-30°	1305.2	17.8
30°-40°	1491.5	20.3
40°-50°	1348.4	18.4
50°-60°	970.1	13.2
60°-70°	562.4	7.7
70°-80°	333.6	4.5
80°-90°	147.8	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°	2481.2	33.8
0°-40°	3972.7	54.2
0°-60°	6291.2	85.8
0°-90°	7335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3205	3205	3205	3205	3205	
5°	3204	3199	3197	3193	3203	304
15°	3087	3093	3093	3090	3101	872
25°	2845	2841	2839	2833	2841	1308
35°	2412	2401	2405	2376	2396	1504
45°	1794	1763	1745	1729	1713	1378
55°	1144	1122	1066	1039	1025	1024
65°	634	563	488	545	596	640
75°	357	299	263	325	375	377
85°	130	141	137	158	148	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3205.1	3205.1	3205.1	3205.1	3205.1
2.5°	3214.3	3202.9	3208.6	3205.1	3204.0
5°	3204.0	3199.4	3197.1	3192.6	3202.9
7.5°	3183.4	3180.0	3181.1	3182.3	3189.1
10°	3162.8	3157.1	3158.2	3160.5	3163.9
12.5°	3130.8	3127.3	3128.5	3130.8	3138.8
15°	3087.3	3093.0	3093.0	3089.6	3101.0
17.5°	3043.8	3042.7	3048.4	3038.1	3054.1
20°	2983.1	2984.3	2983.1	2984.3	2994.6
22.5°	2914.5	2920.2	2916.8	2916.8	2928.2
25°	2844.7	2841.3	2839.0	2833.2	2841.3
27.5°	2761.2	2754.3	2748.6	2737.1	2742.8
30°	2654.7	2655.9	2641.0	2630.7	2628.4
32.5°	2535.7	2535.7	2522.0	2514.0	2520.9
35°	2412.2	2400.7	2405.3	2375.5	2396.1
37.5°	2278.3	2260.0	2249.7	2239.4	2246.2
40°	2124.9	2100.9	2086.0	2065.4	2076.9
42.5°	1963.6	1933.8	1915.5	1900.7	1905.2
45°	1794.2	1763.3	1745.0	1729.0	1713.0
47.5°	1615.7	1596.3	1587.1	1566.5	1548.2
50°	1441.8	1434.9	1413.2	1396.0	1358.3
52.5°	1282.7	1277.0	1242.7	1214.1	1166.0
55°	1144.3	1122.5	1066.5	1039.0	1025.3
57.5°	1003.5	968.1	900.6	897.1	906.3
60°	868.5	825.0	743.8	762.1	797.6
62.5°	746.1	680.8	603.0	646.5	688.9
65°	633.9	563.0	487.5	544.7	596.2
67.5°	541.2	470.3	392.5	469.2	528.7
70°	468.0	395.9	322.7	410.8	466.9
72.5°	407.4	342.1	281.5	365.0	423.4
75°	357.0	298.7	263.2	325.0	375.3
77.5°	306.7	259.8	251.7	289.5	320.4
80°	249.5	227.7	230.0	254.0	265.5
82.5°	186.5	187.7	193.4	212.8	208.3
85°	130.4	140.7	137.3	157.9	147.6
87.5°	72.1	79.0	74.4	90.4	81.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)