

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: P293188

Luminaire Tested: **24GR-LD5-56-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-F125-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5917.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

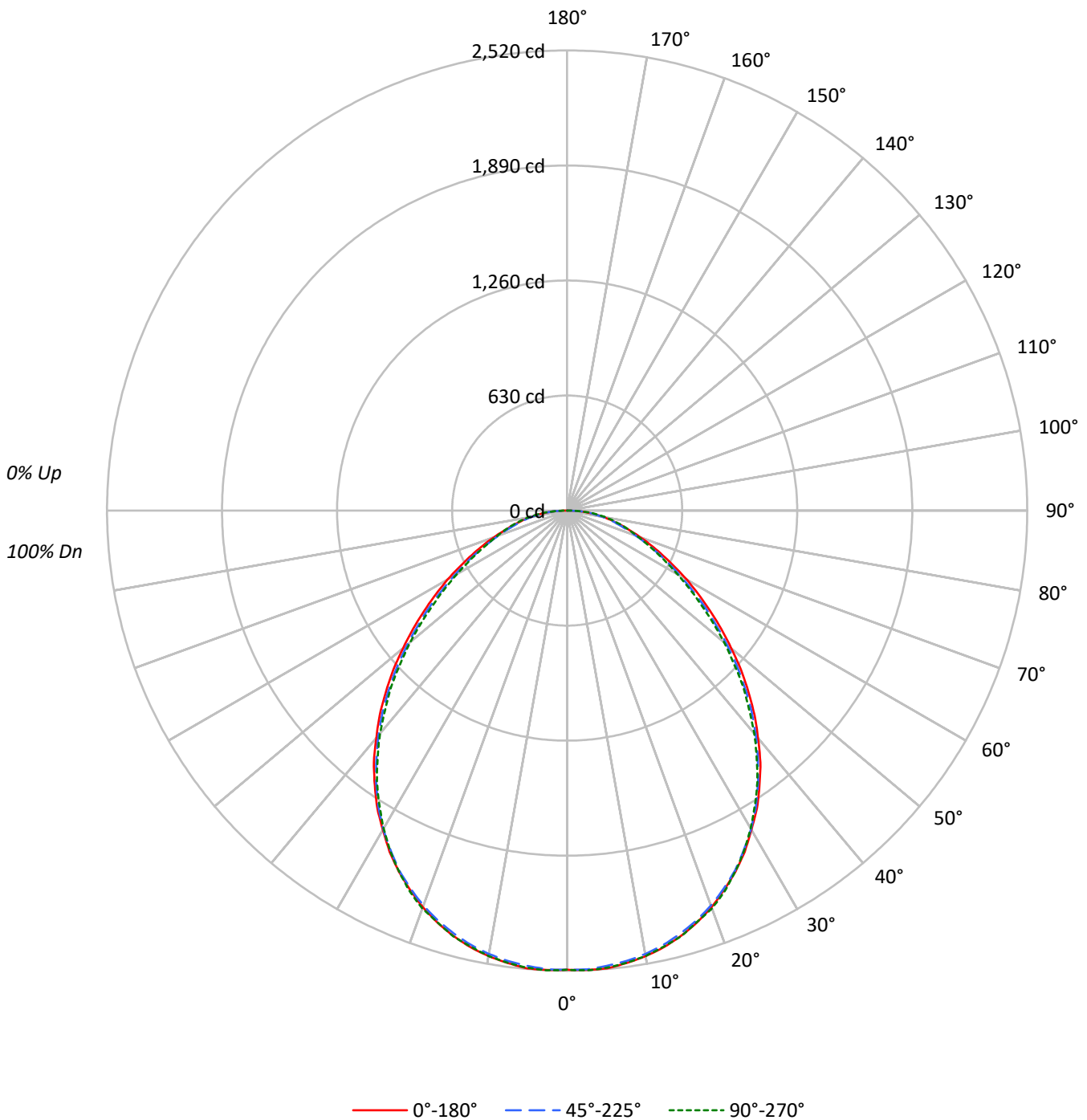
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3384	3384	3384
5°	3399	3380	3394
10°	3385	3369	3384
15°	3359	3341	3361
20°	3309	3296	3320
25°	3238	3229	3236
30°	3135	3130	3122
35°	3017	2994	2982
40°	2856	2823	2801
45°	2672	2622	2590
50°	2455	2389	2348
55°	2239	2156	2094
60°	2033	1924	1874
65°	1832	1728	1699
70°	1677	1568	1612
75°	1567	1495	1606
80°	1555	1526	1677
85°	1585	1599	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.0	4.0
10°-20°	676.6	11.4
20°-30°	999.6	16.9
30°-40°	1136.4	19.2
40°-50°	1061.3	17.9
50°-60°	825.3	13.9
60°-70°	547.6	9.3
70°-80°	316.9	5.4
80°-90°	115.2	1.9
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°	1914.2	32.4
0°-40°	3050.6	51.6
0°-60°	4937.2	83.4
0°-90°	5917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2515	2515	2515	2515	2515	
5°	2517	2504	2503	2507	2513	239
15°	2411	2399	2398	2397	2413	679
25°	2181	2172	2175	2171	2180	1003
35°	1837	1828	1823	1810	1816	1147
45°	1404	1393	1378	1360	1361	1082
55°	954	941	919	895	892	856
65°	575	558	543	533	534	575
75°	302	294	288	301	309	323
85°	103	101	104	118	118	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2514.7	2514.7	2514.7	2514.7	2514.7
2.5°	2518.4	2511.0	2514.7	2511.9	2520.3
5°	2516.6	2503.6	2502.7	2507.3	2512.9
7.5°	2499.0	2485.1	2487.9	2487.9	2497.2
10°	2477.7	2463.9	2465.7	2466.6	2476.8
12.5°	2449.1	2435.2	2436.1	2435.2	2445.4
15°	2411.1	2399.1	2398.2	2397.3	2413.0
17.5°	2364.9	2348.2	2353.8	2354.7	2363.0
20°	2311.3	2298.3	2302.0	2301.1	2318.7
22.5°	2247.4	2238.2	2241.0	2239.1	2255.8
25°	2180.8	2171.6	2175.3	2170.7	2179.9
27.5°	2105.9	2099.5	2095.8	2093.0	2099.5
30°	2018.1	2014.4	2014.4	2002.3	2009.7
32.5°	1934.8	1922.8	1922.8	1918.2	1913.6
35°	1836.8	1827.5	1822.9	1810.0	1815.5
37.5°	1738.8	1717.5	1715.6	1705.5	1705.5
40°	1625.9	1613.9	1607.4	1596.3	1594.5
42.5°	1518.6	1506.6	1495.5	1477.0	1473.3
45°	1404.0	1392.9	1378.1	1360.5	1361.4
47.5°	1290.2	1274.5	1260.6	1239.3	1236.6
50°	1172.7	1161.6	1141.3	1122.8	1121.9
52.5°	1062.7	1045.1	1026.6	1004.4	1004.4
55°	954.5	940.6	919.3	895.3	892.5
57.5°	850.9	837.9	813.9	796.3	791.7
60°	755.6	737.1	714.9	700.1	696.4
62.5°	660.4	643.7	627.1	612.3	611.3
65°	575.3	557.7	542.9	532.7	533.7
67.5°	498.5	483.7	467.1	464.3	465.2
70°	426.4	410.6	398.6	405.1	409.7
72.5°	357.9	349.6	341.3	350.5	357.0
75°	301.5	294.1	287.6	300.6	308.9
77.5°	249.7	244.2	243.2	254.3	261.7
80°	200.7	194.2	197.0	209.9	216.4
82.5°	152.6	148.0	148.9	164.6	169.3
85°	102.7	100.8	103.6	117.5	118.4
87.5°	54.6	54.6	56.4	64.7	62.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)