

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: P293004

Luminaire Tested: **24GR-LD5-56-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-F1-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5802.0 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

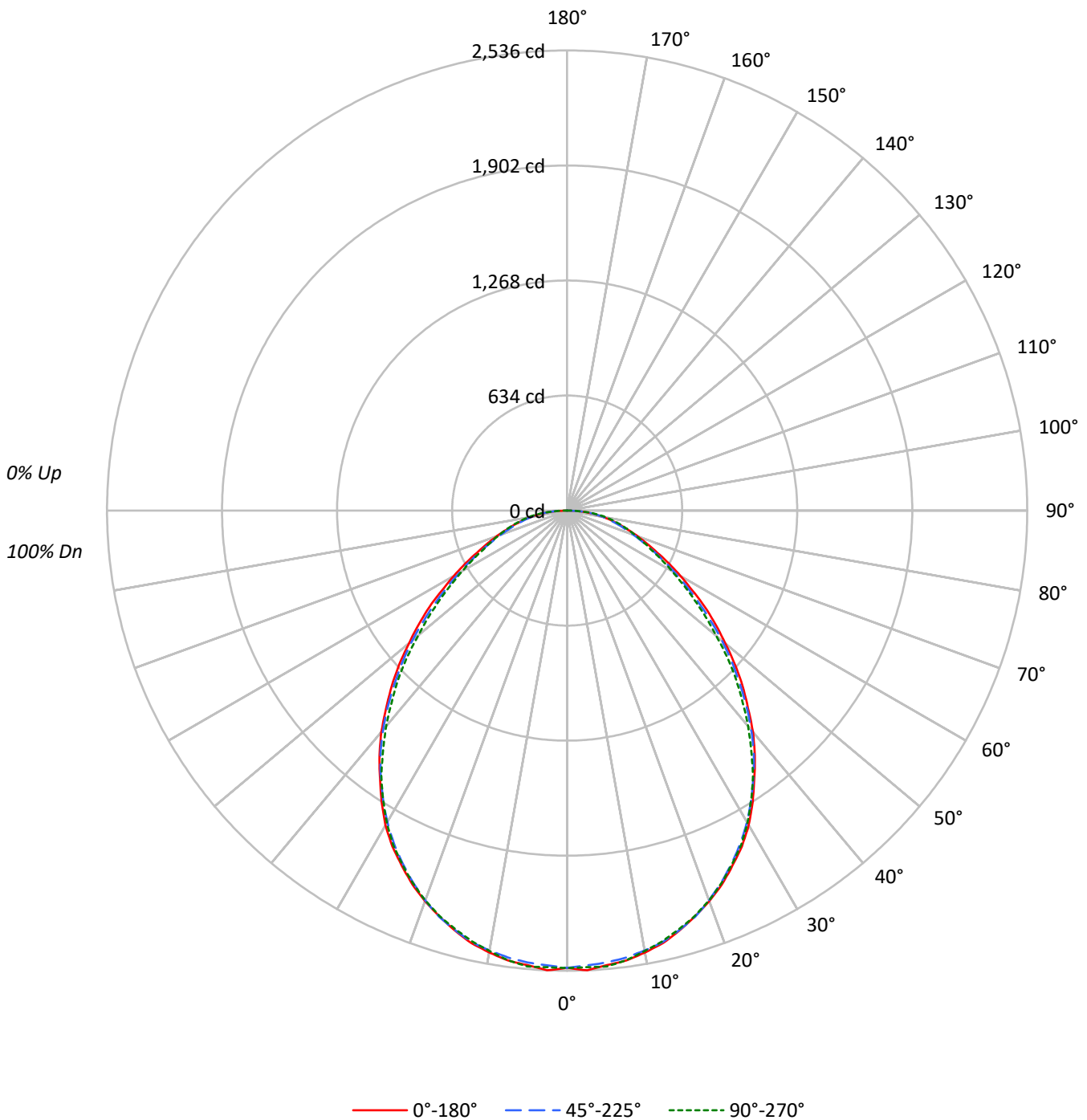
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	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	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3391	3391	3391
5°	3396	3376	3405
10°	3378	3363	3366
15°	3336	3332	3324
20°	3280	3273	3273
25°	3203	3185	3193
30°	3111	3079	3088
35°	2954	2941	2933
40°	2798	2772	2724
45°	2600	2555	2505
50°	2382	2330	2242
55°	2175	2077	2007
60°	1939	1845	1797
65°	1745	1654	1631
70°	1620	1520	1582
75°	1549	1481	1605
80°	1548	1548	1715
85°	1607	1626	1811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.0	4.1
10°-20°	673.5	11.6
20°-30°	988.5	17.0
30°-40°	1117.6	19.3
40°-50°	1032.9	17.8
50°-60°	795.8	13.7
60°-70°	527.0	9.1
70°-80°	313.7	5.4
80°-90°	114.9	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°	1900.1	32.7
0°-40°	3017.7	52.0
0°-60°	4846.4	83.5
0°-90°	5802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2520	2520	2520	2520	2520	
5°	2514	2514	2500	2501	2521	239
15°	2395	2390	2392	2391	2386	675
25°	2158	2152	2146	2143	2150	993
35°	1799	1796	1790	1782	1786	1125
45°	1367	1357	1343	1319	1316	1053
55°	927	908	886	862	856	827
65°	548	540	519	515	512	550
75°	298	291	285	298	309	318
85°	104	98	105	116	117	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2520.3	2520.3	2520.3	2520.3	2520.3
2.5°	2535.8	2522.6	2508.3	2508.3	2519.1
5°	2514.3	2514.3	2499.9	2501.1	2521.4
7.5°	2501.1	2493.9	2484.4	2484.4	2499.9
10°	2472.4	2466.4	2461.6	2459.2	2464.0
12.5°	2441.3	2431.7	2435.3	2431.7	2430.5
15°	2394.6	2389.8	2392.2	2391.0	2386.2
17.5°	2344.3	2341.9	2346.7	2338.4	2341.9
20°	2290.5	2283.3	2285.7	2280.9	2285.7
22.5°	2229.5	2224.7	2218.7	2212.7	2222.3
25°	2157.7	2151.7	2145.7	2143.3	2150.5
27.5°	2085.8	2076.3	2067.9	2065.5	2076.3
30°	2002.1	1991.3	1981.7	1979.3	1987.7
32.5°	1902.8	1900.4	1888.4	1883.6	1887.2
35°	1798.6	1796.2	1790.3	1781.9	1785.5
37.5°	1699.3	1698.1	1689.7	1675.4	1665.8
40°	1592.8	1584.4	1578.4	1558.1	1550.9
42.5°	1475.5	1473.1	1462.4	1439.6	1431.3
45°	1366.6	1357.1	1342.7	1318.8	1316.4
47.5°	1254.1	1241.0	1227.8	1197.9	1196.7
50°	1138.1	1128.5	1112.9	1083.0	1071.0
52.5°	1030.4	1017.2	995.7	966.9	961.0
55°	927.4	908.3	885.6	861.6	855.6
57.5°	817.3	809.0	781.4	762.3	755.1
60°	720.4	713.2	685.7	667.8	667.8
62.5°	633.1	622.3	598.4	586.4	586.4
65°	548.1	539.7	519.4	514.6	512.2
67.5°	475.1	464.3	450.0	448.8	454.7
70°	411.7	398.5	386.5	398.5	402.1
72.5°	351.8	343.5	332.7	348.2	355.4
75°	298.0	290.8	284.8	298.0	308.7
77.5°	248.9	241.7	241.7	256.1	265.7
80°	199.8	195.1	199.8	211.8	221.4
82.5°	153.2	149.6	155.6	167.5	173.5
85°	104.1	98.1	105.3	116.1	117.3
87.5°	49.1	47.9	52.7	59.8	58.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)