

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: P294414

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-FGW080-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6184.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

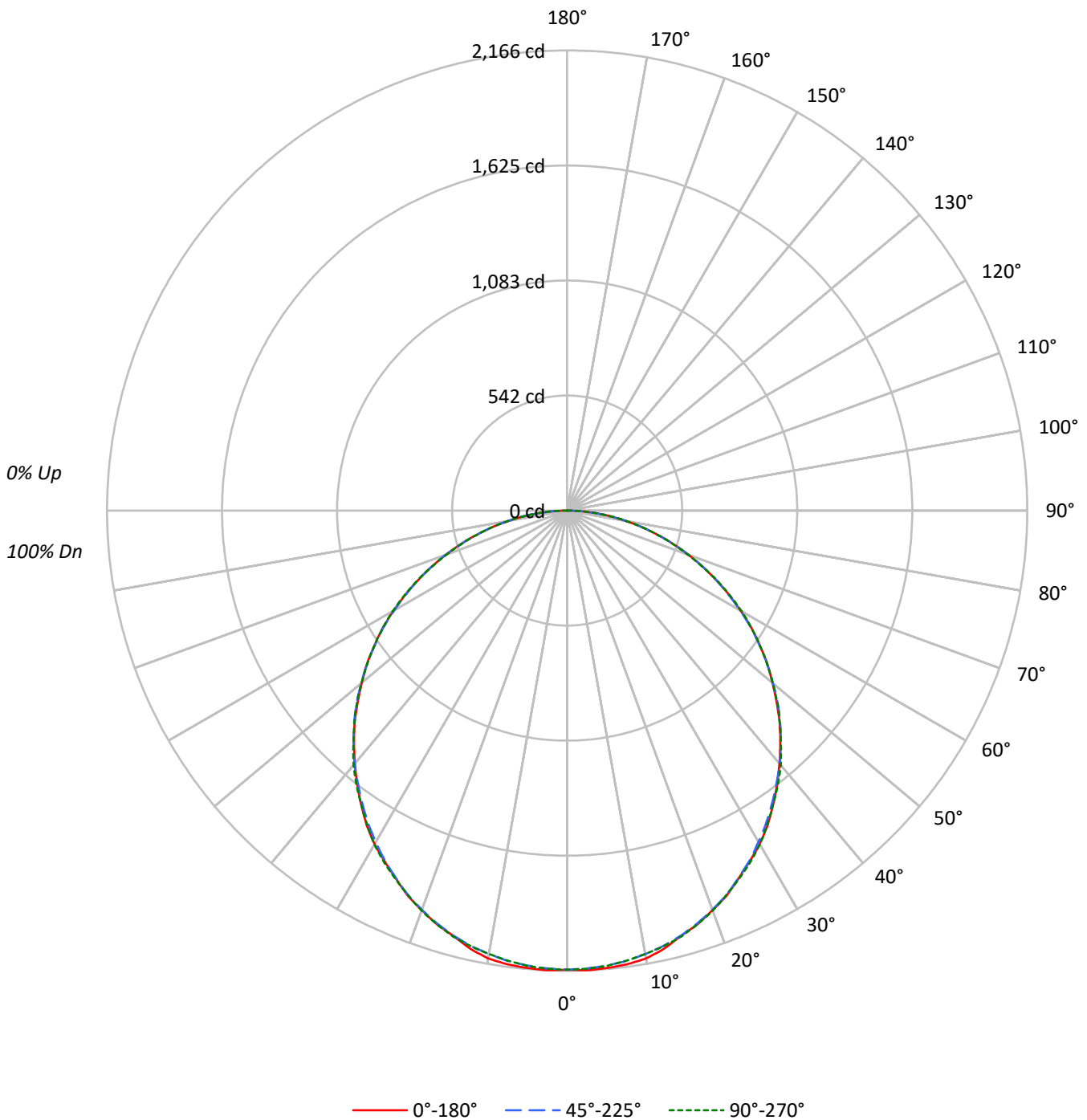
Input Watts (W): 62.589
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2908	2908	2908
5°	2919	2903	2905
10°	2925	2895	2895
15°	2887	2885	2891
20°	2865	2863	2869
25°	2834	2832	2841
30°	2816	2798	2819
35°	2776	2762	2776
40°	2731	2733	2749
45°	2692	2700	2695
50°	2641	2650	2644
55°	2600	2593	2600
60°	2539	2531	2555
65°	2461	2470	2479
70°	2381	2393	2375
75°	2297	2297	2297
80°	2170	2170	2192
85°	2004	2027	1959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	3.3
10°-20°	584.2	9.4
20°-30°	880.4	14.2
30°-40°	1054.5	17.1
40°-50°	1091.6	17.7
50°-60°	989.7	16.0
60°-70°	767.3	12.4
70°-80°	466.6	7.5
80°-90°	145.2	2.3
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°	1669.0	27.0
0°-40°	2723.6	44.0
0°-60°	4804.9	77.7
0°-90°	6184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2161	2161	2161	2161	2161	
5°	2161	2148	2150	2147	2151	206
15°	2072	2074	2071	2064	2075	586
25°	1909	1909	1908	1913	1913	881
35°	1690	1679	1682	1689	1690	1057
45°	1415	1418	1419	1413	1416	1090
55°	1108	1103	1106	1110	1108	991
65°	773	777	776	773	779	767
75°	442	440	442	440	442	467
85°	130	128	131	130	127	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2161.4	2161.4	2161.4	2161.4	2161.4
2.5°	2165.8	2157.0	2157.0	2154.1	2158.5
5°	2161.4	2148.3	2149.7	2146.8	2151.2
7.5°	2154.1	2136.6	2138.0	2135.1	2136.6
10°	2141.0	2120.5	2119.1	2117.6	2119.1
12.5°	2111.8	2100.1	2098.7	2095.8	2100.1
15°	2072.4	2073.9	2071.0	2063.7	2075.3
17.5°	2041.8	2040.3	2037.4	2030.1	2041.8
20°	2001.0	2002.4	1999.5	1996.6	2003.9
22.5°	1961.6	1957.2	1958.7	1957.2	1958.7
25°	1909.1	1909.1	1907.6	1913.4	1913.4
27.5°	1860.9	1855.1	1858.0	1863.9	1866.8
30°	1812.8	1798.2	1801.1	1807.0	1814.3
32.5°	1755.9	1741.4	1744.3	1750.1	1753.0
35°	1690.3	1678.6	1681.6	1688.9	1690.3
37.5°	1623.2	1615.9	1618.8	1624.7	1629.1
40°	1554.7	1551.8	1556.1	1554.7	1564.9
42.5°	1484.7	1483.2	1487.6	1487.6	1489.0
45°	1414.7	1417.6	1419.0	1413.2	1416.1
47.5°	1337.4	1338.8	1344.7	1341.7	1343.2
50°	1261.5	1260.1	1265.9	1267.4	1263.0
52.5°	1188.6	1181.3	1187.2	1190.1	1187.2
55°	1108.4	1102.6	1105.5	1109.9	1108.4
57.5°	1029.6	1023.8	1025.3	1032.6	1029.6
60°	943.6	942.1	940.7	946.5	949.4
62.5°	859.0	857.6	854.6	860.5	863.4
65°	773.0	777.3	775.9	773.0	778.8
67.5°	691.3	695.7	691.3	688.4	688.4
70°	605.2	609.6	608.2	605.2	603.8
72.5°	525.0	525.0	522.1	520.7	522.1
75°	441.9	440.4	441.9	440.4	441.9
77.5°	360.2	361.7	361.7	361.7	360.2
80°	280.0	280.0	280.0	281.5	282.9
82.5°	205.6	201.3	205.6	202.7	204.2
85°	129.8	128.3	131.3	129.8	126.9
87.5°	58.3	59.8	59.8	61.3	61.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)