

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: P294413

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294413
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5889.0 lumens
Efficiency: N/A
Efficacy: 95.2 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

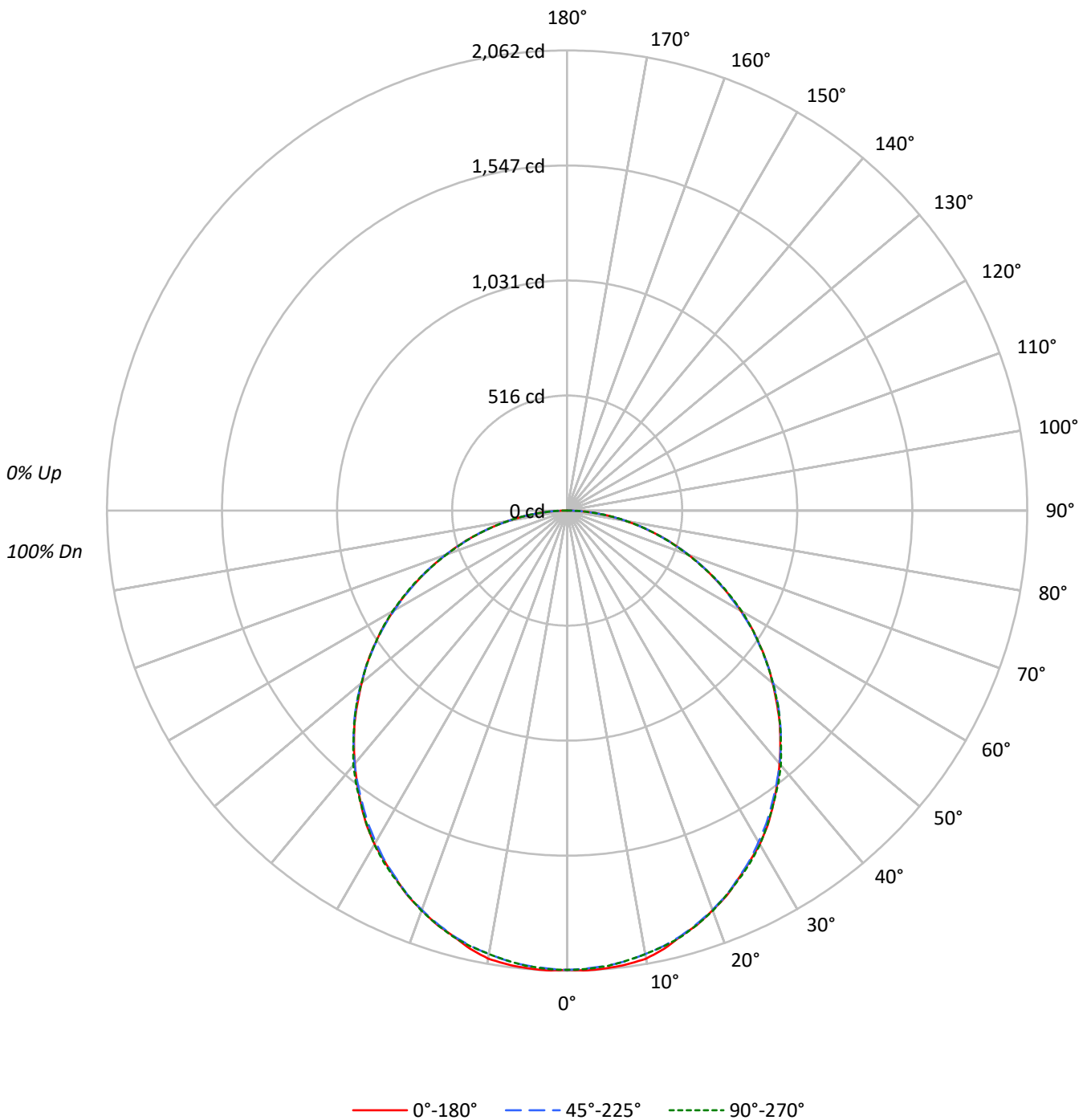
Input Watts (W): 61.845
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2769	2769	2769
5°	2780	2765	2767
10°	2786	2757	2757
15°	2749	2747	2753
20°	2728	2726	2732
25°	2699	2697	2705
30°	2682	2665	2684
35°	2644	2630	2644
40°	2600	2603	2617
45°	2563	2571	2566
50°	2515	2523	2518
55°	2476	2469	2476
60°	2418	2411	2433
65°	2344	2352	2361
70°	2268	2278	2262
75°	2188	2188	2188
80°	2066	2066	2087
85°	1908	1930	1865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	3.3
10°-20°	556.4	9.4
20°-30°	838.4	14.2
30°-40°	1004.2	17.1
40°-50°	1039.5	17.7
50°-60°	942.5	16.0
60°-70°	730.7	12.4
70°-80°	444.4	7.5
80°-90°	138.2	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°	1589.4	27.0
0°-40°	2593.6	44.0
0°-60°	4575.6	77.7
0°-90°	5889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2058	2058	2058	2058	2058	
5°	2058	2046	2047	2044	2049	196
15°	1974	1975	1972	1965	1976	558
25°	1818	1818	1817	1822	1822	839
35°	1610	1599	1601	1608	1610	1007
45°	1347	1350	1351	1346	1349	1038
55°	1056	1050	1053	1057	1056	943
65°	736	740	739	736	742	730
75°	421	419	421	419	421	445
85°	124	122	125	124	121	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2058.3	2058.3	2058.3	2058.3	2058.3
2.5°	2062.4	2054.1	2054.1	2051.3	2055.5
5°	2058.3	2045.8	2047.2	2044.4	2048.6
7.5°	2051.3	2034.7	2036.1	2033.3	2034.7
10°	2038.8	2019.4	2018.0	2016.6	2018.0
12.5°	2011.1	1999.9	1998.6	1995.8	1999.9
15°	1973.6	1974.9	1972.2	1965.2	1976.3
17.5°	1944.4	1943.0	1940.2	1933.3	1944.4
20°	1905.5	1906.9	1904.1	1901.3	1908.3
22.5°	1868.0	1863.8	1865.2	1863.8	1865.2
25°	1818.0	1818.0	1816.6	1822.2	1822.2
27.5°	1772.2	1766.6	1769.4	1774.9	1777.7
30°	1726.3	1712.4	1715.2	1720.8	1727.7
32.5°	1672.2	1658.3	1661.1	1666.6	1669.4
35°	1609.7	1598.6	1601.3	1608.3	1609.7
37.5°	1545.8	1538.8	1541.6	1547.2	1551.3
40°	1480.5	1477.7	1481.9	1480.5	1490.2
42.5°	1413.8	1412.5	1416.6	1416.6	1418.0
45°	1347.2	1350.0	1351.3	1345.8	1348.6
47.5°	1273.6	1275.0	1280.5	1277.7	1279.1
50°	1201.4	1200.0	1205.5	1206.9	1202.7
52.5°	1131.9	1125.0	1130.5	1133.3	1130.5
55°	1055.5	1050.0	1052.7	1056.9	1055.5
57.5°	980.5	975.0	976.4	983.3	980.5
60°	898.6	897.2	895.8	901.4	904.1
62.5°	818.0	816.6	813.9	819.4	822.2
65°	736.1	740.3	738.9	736.1	741.6
67.5°	658.3	662.5	658.3	655.5	655.5
70°	576.4	580.5	579.1	576.4	575.0
72.5°	500.0	500.0	497.2	495.8	497.2
75°	420.8	419.4	420.8	419.4	420.8
77.5°	343.0	344.4	344.4	344.4	343.0
80°	266.7	266.7	266.7	268.0	269.4
82.5°	195.8	191.7	195.8	193.0	194.4
85°	123.6	122.2	125.0	123.6	120.8
87.5°	55.6	56.9	56.9	58.3	58.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)