

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: P294336

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294336
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-L93050-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: 6144.0 lumens
Efficiency: N/A
Efficacy: 96.6 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

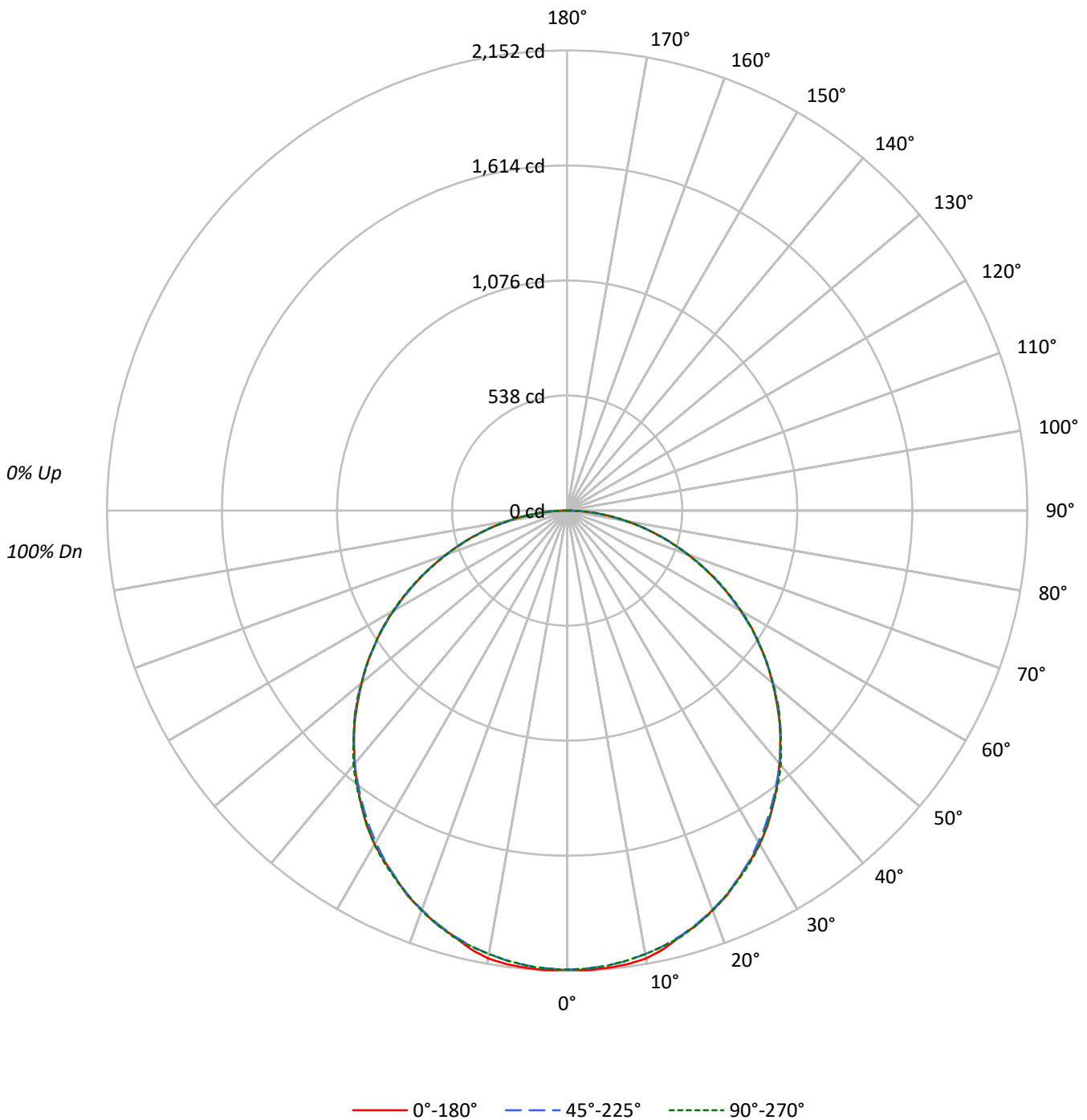
Input Watts (W): 63.588657
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2889	2889	2889
5°	2900	2885	2887
10°	2906	2876	2876
15°	2868	2866	2872
20°	2846	2844	2851
25°	2816	2814	2822
30°	2798	2780	2800
35°	2758	2744	2758
40°	2713	2716	2731
45°	2674	2683	2677
50°	2624	2633	2627
55°	2583	2576	2583
60°	2523	2515	2538
65°	2445	2454	2464
70°	2365	2377	2360
75°	2282	2282	2282
80°	2156	2156	2178
85°	1991	2013	1947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	3.3
10°-20°	580.5	9.4
20°-30°	874.7	14.2
30°-40°	1047.7	17.1
40°-50°	1084.5	17.7
50°-60°	983.3	16.0
60°-70°	762.4	12.4
70°-80°	463.6	7.5
80°-90°	144.2	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°	1658.2	27.0
0°-40°	2705.9	44.0
0°-60°	4773.8	77.7
0°-90°	6144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2147	2147	2147	2147	2147	
5°	2147	2134	2136	2133	2137	204
15°	2059	2060	2058	2050	2062	582
25°	1897	1897	1895	1901	1901	876
35°	1679	1668	1671	1678	1679	1051
45°	1406	1408	1410	1404	1407	1083
55°	1101	1095	1098	1103	1101	984
65°	768	772	771	768	774	762
75°	439	438	439	438	439	464
85°	129	128	130	129	126	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2147.4	2147.4	2147.4	2147.4	2147.4
2.5°	2151.7	2143.1	2143.1	2140.2	2144.5
5°	2147.4	2134.4	2135.8	2132.9	2137.3
7.5°	2140.2	2122.8	2124.2	2121.3	2122.8
10°	2127.1	2106.8	2105.4	2103.9	2105.4
12.5°	2098.1	2086.5	2085.1	2082.2	2086.5
15°	2059.0	2060.5	2057.6	2050.3	2061.9
17.5°	2028.6	2027.1	2024.2	2017.0	2028.6
20°	1988.0	1989.5	1986.6	1983.7	1990.9
22.5°	1948.9	1944.5	1946.0	1944.5	1946.0
25°	1896.7	1896.7	1895.3	1901.1	1901.1
27.5°	1848.9	1843.1	1846.0	1851.8	1854.7
30°	1801.1	1786.6	1789.5	1795.3	1802.5
32.5°	1744.6	1730.1	1733.0	1738.8	1741.7
35°	1679.4	1667.8	1670.7	1677.9	1679.4
37.5°	1612.7	1605.5	1608.4	1614.2	1618.5
40°	1544.6	1541.7	1546.1	1544.6	1554.8
42.5°	1475.1	1473.6	1478.0	1478.0	1479.4
45°	1405.5	1408.4	1409.9	1404.1	1407.0
47.5°	1328.7	1330.2	1336.0	1333.1	1334.5
50°	1253.4	1251.9	1257.7	1259.2	1254.8
52.5°	1180.9	1173.7	1179.5	1182.4	1179.5
55°	1101.2	1095.4	1098.3	1102.7	1101.2
57.5°	1023.0	1017.2	1018.6	1025.9	1023.0
60°	937.5	936.0	934.6	940.4	943.3
62.5°	853.5	852.0	849.1	854.9	857.8
65°	768.0	772.3	770.9	768.0	773.8
67.5°	686.8	691.2	686.8	683.9	683.9
70°	601.3	605.7	604.2	601.3	599.9
72.5°	521.6	521.6	518.7	517.3	518.7
75°	439.0	437.6	439.0	437.6	439.0
77.5°	357.9	359.3	359.3	359.3	357.9
80°	278.2	278.2	278.2	279.7	281.1
82.5°	204.3	200.0	204.3	201.4	202.9
85°	129.0	127.5	130.4	129.0	126.1
87.5°	58.0	59.4	59.4	60.9	60.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)