

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: P294267

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294267
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-LD5-56-FGW080-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5136.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

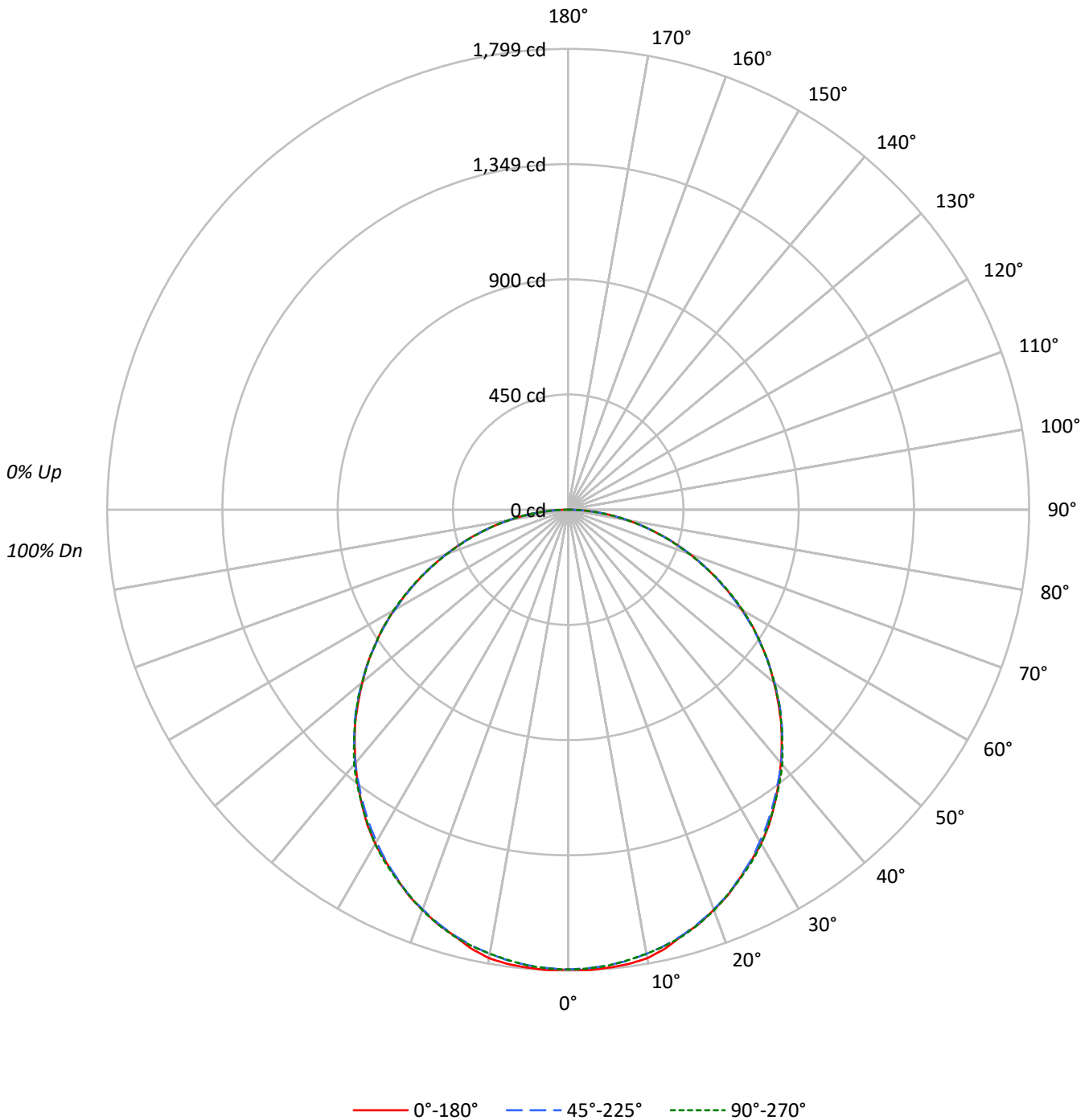
Input Watts (W): 40.734
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2415	2415	2415
5°	2425	2411	2413
10°	2429	2405	2405
15°	2398	2396	2401
20°	2380	2378	2383
25°	2354	2352	2359
30°	2339	2324	2341
35°	2306	2294	2306
40°	2268	2270	2283
45°	2236	2243	2238
50°	2193	2201	2196
55°	2160	2154	2160
60°	2109	2102	2122
65°	2044	2052	2059
70°	1978	1987	1973
75°	1908	1908	1908
80°	1802	1802	1821
85°	1664	1683	1627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	3.3
10°-20°	485.2	9.4
20°-30°	731.2	14.2
30°-40°	875.8	17.1
40°-50°	906.6	17.7
50°-60°	822.0	16.0
60°-70°	637.3	12.4
70°-80°	387.6	7.5
80°-90°	120.6	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°	1386.2	27.0
0°-40°	2262.0	44.0
0°-60°	3990.6	77.7
0°-90°	5136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1795	1795	1795	1795	1795	
5°	1795	1784	1785	1783	1787	171
15°	1721	1722	1720	1714	1724	487
25°	1586	1586	1584	1589	1589	732
35°	1404	1394	1397	1403	1404	878
45°	1175	1177	1179	1174	1176	905
55°	921	916	918	922	921	823
65°	642	646	644	642	647	637
75°	367	366	367	366	367	388
85°	108	107	109	108	105	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1795.1	1795.1	1795.1	1795.1	1795.1
2.5°	1798.7	1791.5	1791.5	1789.0	1792.7
5°	1795.1	1784.2	1785.4	1783.0	1786.6
7.5°	1789.0	1774.5	1775.7	1773.3	1774.5
10°	1778.1	1761.2	1760.0	1758.8	1760.0
12.5°	1753.9	1744.2	1743.0	1740.6	1744.2
15°	1721.2	1722.4	1720.0	1713.9	1723.6
17.5°	1695.8	1694.6	1692.1	1686.1	1695.8
20°	1661.9	1663.1	1660.6	1658.2	1664.3
22.5°	1629.1	1625.5	1626.7	1625.5	1626.7
25°	1585.5	1585.5	1584.3	1589.2	1589.2
27.5°	1545.6	1540.7	1543.1	1548.0	1550.4
30°	1505.6	1493.5	1495.9	1500.8	1506.8
32.5°	1458.4	1446.2	1448.7	1453.5	1455.9
35°	1403.9	1394.2	1396.6	1402.6	1403.9
37.5°	1348.1	1342.1	1344.5	1349.3	1353.0
40°	1291.2	1288.8	1292.4	1291.2	1299.7
42.5°	1233.1	1231.9	1235.5	1235.5	1236.7
45°	1174.9	1177.3	1178.6	1173.7	1176.1
47.5°	1110.7	1111.9	1116.8	1114.4	1115.6
50°	1047.7	1046.5	1051.4	1052.6	1049.0
52.5°	987.2	981.1	986.0	988.4	986.0
55°	920.6	915.7	918.1	921.8	920.6
57.5°	855.2	850.3	851.5	857.6	855.2
60°	783.7	782.5	781.3	786.1	788.5
62.5°	713.4	712.2	709.8	714.6	717.1
65°	642.0	645.6	644.4	642.0	646.8
67.5°	574.1	577.8	574.1	571.7	571.7
70°	502.7	506.3	505.1	502.7	501.5
72.5°	436.1	436.1	433.6	432.4	433.6
75°	367.0	365.8	367.0	365.8	367.0
77.5°	299.2	300.4	300.4	300.4	299.2
80°	232.6	232.6	232.6	233.8	235.0
82.5°	170.8	167.2	170.8	168.4	169.6
85°	107.8	106.6	109.0	107.8	105.4
87.5°	48.5	49.7	49.7	50.9	50.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)