

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: P294266

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294266
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5122.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

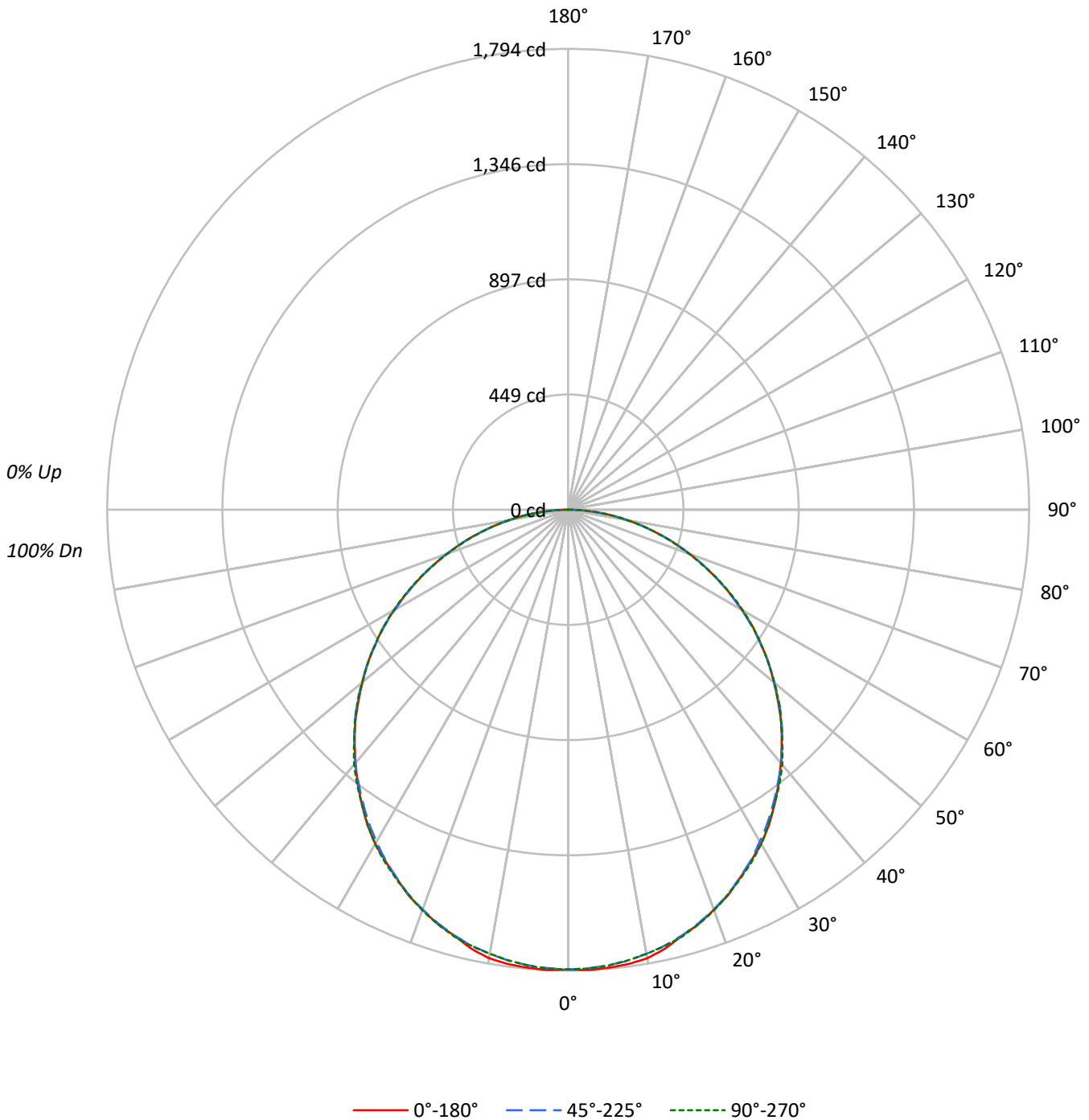
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2409	2409	2409
5°	2418	2405	2406
10°	2423	2398	2398
15°	2391	2389	2394
20°	2373	2371	2376
25°	2347	2346	2353
30°	2333	2318	2335
35°	2300	2288	2300
40°	2262	2264	2276
45°	2230	2236	2232
50°	2187	2195	2190
55°	2154	2148	2154
60°	2103	2097	2116
65°	2038	2046	2054
70°	1972	1982	1967
75°	1903	1903	1903
80°	1797	1797	1815
85°	1660	1678	1623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	3.3
10°-20°	483.9	9.4
20°-30°	729.2	14.2
30°-40°	873.4	17.1
40°-50°	904.1	17.7
50°-60°	819.8	16.0
60°-70°	635.6	12.4
70°-80°	386.5	7.5
80°-90°	120.2	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°	1382.4	27.0
0°-40°	2255.8	44.0
0°-60°	3979.7	77.7
0°-90°	5122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1790	1790	1790	1790	1790	
5°	1790	1779	1780	1778	1782	170
15°	1716	1718	1715	1709	1719	485
25°	1581	1581	1580	1585	1585	730
35°	1400	1390	1393	1399	1400	876
45°	1172	1174	1175	1170	1173	903
55°	918	913	916	919	918	821
65°	640	644	643	640	645	635
75°	366	365	366	365	366	387
85°	108	106	109	108	105	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1790.2	1790.2	1790.2	1790.2	1790.2
2.5°	1793.8	1786.6	1786.6	1784.2	1787.8
5°	1790.2	1779.3	1780.5	1778.1	1781.7
7.5°	1784.2	1769.7	1770.9	1768.5	1769.7
10°	1773.3	1756.4	1755.2	1754.0	1755.2
12.5°	1749.1	1739.5	1738.3	1735.8	1739.5
15°	1716.5	1717.7	1715.3	1709.3	1718.9
17.5°	1691.1	1689.9	1687.5	1681.5	1691.1
20°	1657.3	1658.5	1656.1	1653.7	1659.7
22.5°	1624.7	1621.1	1622.3	1621.1	1622.3
25°	1581.2	1581.2	1580.0	1584.8	1584.8
27.5°	1541.4	1536.5	1538.9	1543.8	1546.2
30°	1501.5	1489.4	1491.8	1496.7	1502.7
32.5°	1454.4	1442.3	1444.7	1449.6	1452.0
35°	1400.0	1390.4	1392.8	1398.8	1400.0
37.5°	1344.5	1338.4	1340.8	1345.7	1349.3
40°	1287.7	1285.3	1288.9	1287.7	1296.1
42.5°	1229.7	1228.5	1232.1	1232.1	1233.3
45°	1171.7	1174.1	1175.3	1170.5	1172.9
47.5°	1107.7	1108.9	1113.7	1111.3	1112.5
50°	1044.9	1043.7	1048.5	1049.7	1046.1
52.5°	984.5	978.4	983.3	985.7	983.3
55°	918.1	913.2	915.6	919.3	918.1
57.5°	852.8	848.0	849.2	855.2	852.8
60°	781.6	780.3	779.1	784.0	786.4
62.5°	711.5	710.3	707.9	712.7	715.1
65°	640.2	643.8	642.6	640.2	645.1
67.5°	572.6	576.2	572.6	570.2	570.2
70°	501.3	504.9	503.7	501.3	500.1
72.5°	434.9	434.9	432.4	431.2	432.4
75°	366.0	364.8	366.0	364.8	366.0
77.5°	298.4	299.6	299.6	299.6	298.4
80°	231.9	231.9	231.9	233.1	234.3
82.5°	170.3	166.7	170.3	167.9	169.1
85°	107.5	106.3	108.7	107.5	105.1
87.5°	48.3	49.5	49.5	50.7	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)