

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: P294326

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294326
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-LD5-64-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: 4742.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

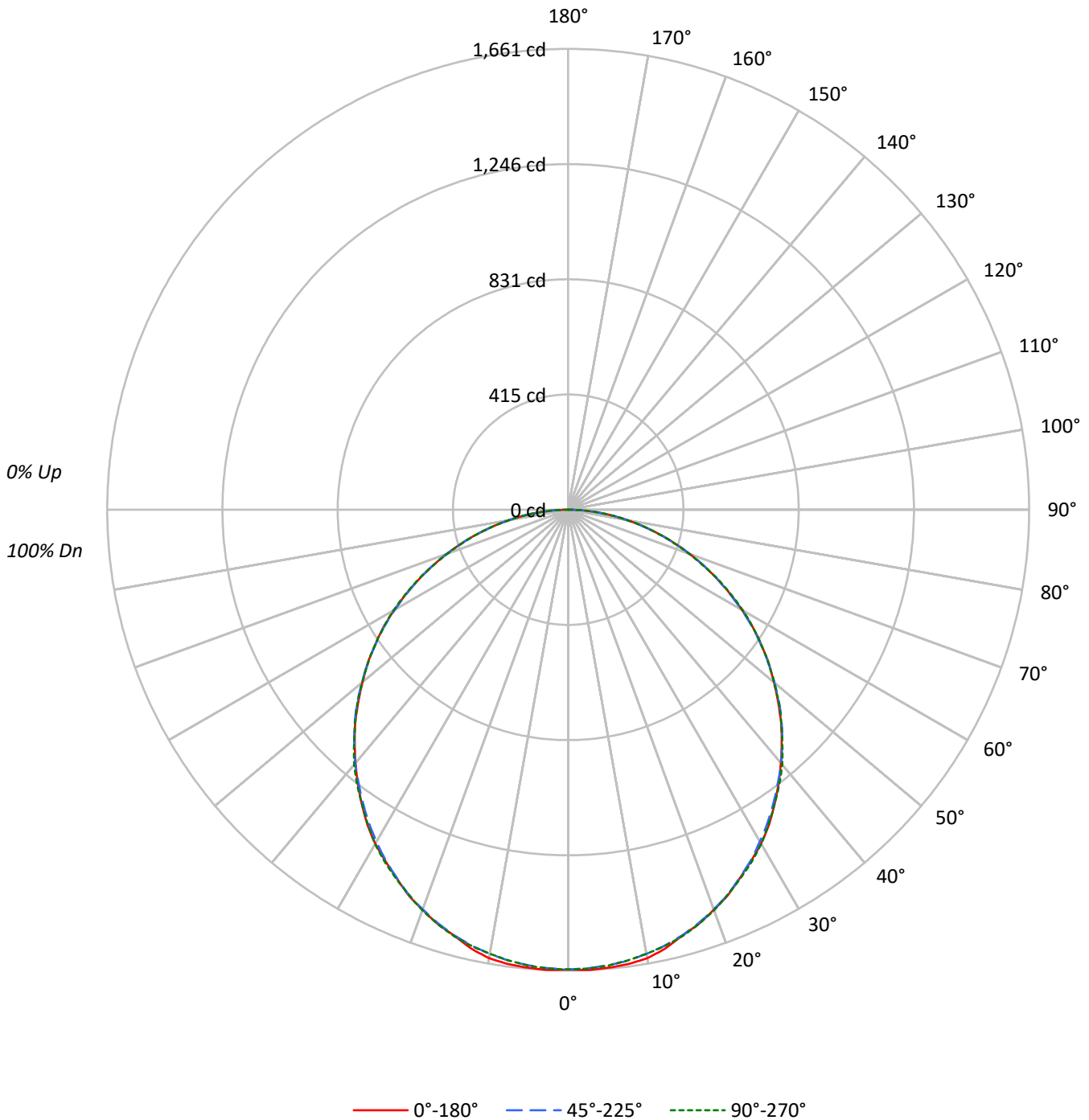
Input Watts (W): 46.814898
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2230	2230	2230
5°	2239	2226	2228
10°	2243	2220	2220
15°	2214	2212	2217
20°	2197	2195	2200
25°	2173	2172	2178
30°	2160	2146	2161
35°	2129	2118	2129
40°	2094	2096	2108
45°	2064	2070	2066
50°	2025	2032	2027
55°	1994	1989	1994
60°	1947	1941	1959
65°	1887	1894	1901
70°	1826	1834	1821
75°	1762	1762	1762
80°	1664	1664	1681
85°	1536	1555	1502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	3.3
10°-20°	448.0	9.4
20°-30°	675.1	14.2
30°-40°	808.6	17.1
40°-50°	837.0	17.7
50°-60°	758.9	16.0
60°-70°	588.4	12.4
70°-80°	357.8	7.5
80°-90°	111.3	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°	1279.8	27.0
0°-40°	2088.5	44.0
0°-60°	3684.4	77.7
0°-90°	4742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1657	1647	1648	1646	1650	158
15°	1589	1590	1588	1582	1591	449
25°	1464	1464	1463	1467	1467	676
35°	1296	1287	1289	1295	1296	811
45°	1085	1087	1088	1084	1086	836
55°	850	846	848	851	850	760
65°	593	596	595	593	597	588
75°	339	338	339	338	339	358
85°	100	98	101	100	97	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1657.4	1657.4	1657.4	1657.4	1657.4
2.5°	1660.7	1654.0	1654.0	1651.8	1655.1
5°	1657.4	1647.3	1648.4	1646.2	1649.6
7.5°	1651.8	1638.4	1639.5	1637.3	1638.4
10°	1641.7	1626.1	1625.0	1623.8	1625.0
12.5°	1619.4	1610.4	1609.3	1607.1	1610.4
15°	1589.2	1590.3	1588.0	1582.5	1591.4
17.5°	1565.7	1564.6	1562.3	1556.7	1565.7
20°	1534.4	1535.5	1533.2	1531.0	1536.6
22.5°	1504.2	1500.8	1501.9	1500.8	1501.9
25°	1463.9	1463.9	1462.8	1467.3	1467.3
27.5°	1427.0	1422.5	1424.8	1429.2	1431.5
30°	1390.1	1378.9	1381.2	1385.6	1391.2
32.5°	1346.5	1335.3	1337.5	1342.0	1344.2
35°	1296.2	1287.2	1289.4	1295.0	1296.2
37.5°	1244.7	1239.1	1241.4	1245.8	1249.2
40°	1192.2	1189.9	1193.3	1192.2	1200.0
42.5°	1138.5	1137.4	1140.7	1140.7	1141.8
45°	1084.8	1087.0	1088.1	1083.7	1085.9
47.5°	1025.5	1026.6	1031.1	1028.9	1030.0
50°	967.4	966.2	970.7	971.8	968.5
52.5°	911.4	905.9	910.3	912.6	910.3
55°	849.9	845.5	847.7	851.1	849.9
57.5°	789.5	785.1	786.2	791.8	789.5
60°	723.6	722.4	721.3	725.8	728.0
62.5°	658.7	657.6	655.3	659.8	662.1
65°	592.7	596.1	595.0	592.7	597.2
67.5°	530.1	533.4	530.1	527.9	527.9
70°	464.1	467.5	466.3	464.1	463.0
72.5°	402.6	402.6	400.4	399.2	400.4
75°	338.9	337.7	338.9	337.7	338.9
77.5°	276.2	277.3	277.3	277.3	276.2
80°	214.7	214.7	214.7	215.8	217.0
82.5°	157.7	154.3	157.7	155.4	156.6
85°	99.5	98.4	100.7	99.5	97.3
87.5°	44.7	45.9	45.9	47.0	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)