

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: P294192

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294192
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-LD5-48-FGW080-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4482.0 lumens
Efficiency: N/A
Efficacy: 130.3 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

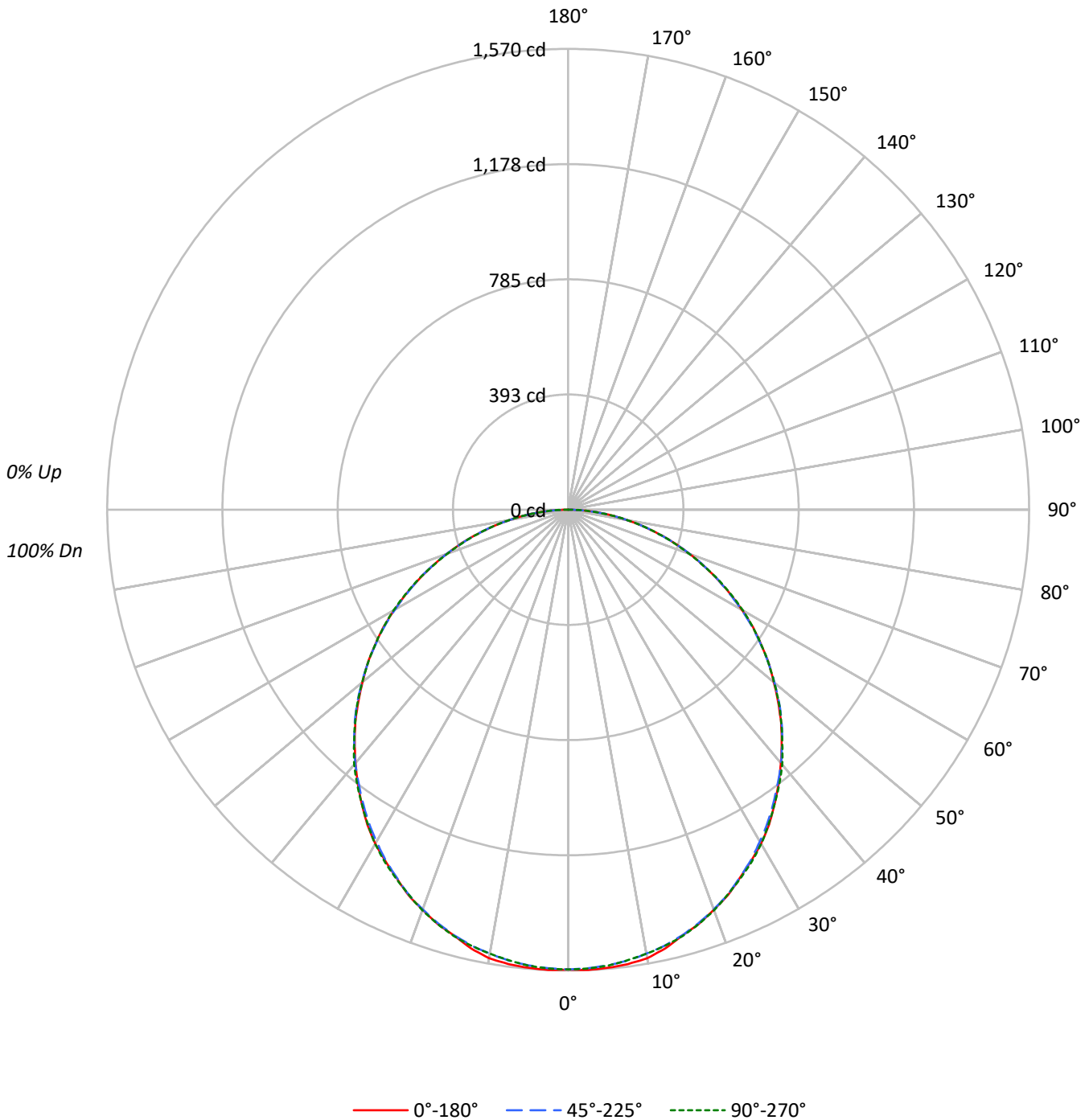
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2108	2108	2108
5°	2116	2104	2106
10°	2120	2098	2098
15°	2092	2091	2095
20°	2076	2075	2080
25°	2054	2053	2059
30°	2041	2028	2043
35°	2012	2002	2012
40°	1979	1981	1992
45°	1951	1957	1953
50°	1914	1921	1916
55°	1884	1879	1884
60°	1840	1835	1852
65°	1784	1790	1797
70°	1726	1734	1721
75°	1665	1665	1665
80°	1572	1572	1589
85°	1453	1468	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	3.3
10°-20°	423.4	9.4
20°-30°	638.1	14.2
30°-40°	764.3	17.1
40°-50°	791.1	17.7
50°-60°	717.3	16.0
60°-70°	556.1	12.4
70°-80°	338.2	7.5
80°-90°	105.2	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°	1209.7	27.0
0°-40°	1974.0	44.0
0°-60°	3482.4	77.7
0°-90°	4482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1566	1557	1558	1556	1559	149
15°	1502	1503	1501	1496	1504	425
25°	1384	1384	1383	1387	1387	639
35°	1225	1217	1219	1224	1225	766
45°	1025	1027	1028	1024	1026	790
55°	803	799	801	804	803	718
65°	560	563	562	560	564	556
75°	320	319	320	319	320	338
85°	94	93	95	94	92	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.5	1566.5	1566.5	1566.5	1566.5
2.5°	1569.7	1563.3	1563.3	1561.2	1564.4
5°	1566.5	1557.0	1558.1	1555.9	1559.1
7.5°	1561.2	1548.5	1549.6	1547.5	1548.5
10°	1551.7	1536.9	1535.9	1534.8	1535.9
12.5°	1530.6	1522.1	1521.1	1518.9	1522.1
15°	1502.0	1503.1	1501.0	1495.7	1504.1
17.5°	1479.8	1478.8	1476.7	1471.4	1479.8
20°	1450.2	1451.3	1449.2	1447.1	1452.4
22.5°	1421.7	1418.5	1419.6	1418.5	1419.6
25°	1383.6	1383.6	1382.6	1386.8	1386.8
27.5°	1348.8	1344.5	1346.6	1350.9	1353.0
30°	1313.9	1303.3	1305.4	1309.7	1314.9
32.5°	1272.7	1262.1	1264.2	1268.4	1270.5
35°	1225.1	1216.6	1218.7	1224.0	1225.1
37.5°	1176.5	1171.2	1173.3	1177.5	1180.7
40°	1126.8	1124.7	1127.8	1126.8	1134.2
42.5°	1076.1	1075.0	1078.2	1078.2	1079.2
45°	1025.3	1027.4	1028.5	1024.3	1026.4
47.5°	969.3	970.3	974.6	972.5	973.5
50°	914.3	913.3	917.5	918.6	915.4
52.5°	861.5	856.2	860.4	862.5	860.4
55°	803.3	799.1	801.2	804.4	803.3
57.5°	746.3	742.0	743.1	748.4	746.3
60°	683.9	682.8	681.8	686.0	688.1
62.5°	622.6	621.5	619.4	623.6	625.8
65°	560.2	563.4	562.3	560.2	564.5
67.5°	501.0	504.2	501.0	498.9	498.9
70°	438.7	441.8	440.8	438.7	437.6
72.5°	380.5	380.5	378.4	377.4	378.4
75°	320.3	319.2	320.3	319.2	320.3
77.5°	261.1	262.1	262.1	262.1	261.1
80°	202.9	202.9	202.9	204.0	205.1
82.5°	149.0	145.9	149.0	146.9	148.0
85°	94.1	93.0	95.1	94.1	92.0
87.5°	42.3	43.3	43.3	44.4	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)