

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: P294397

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294397
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-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4928.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

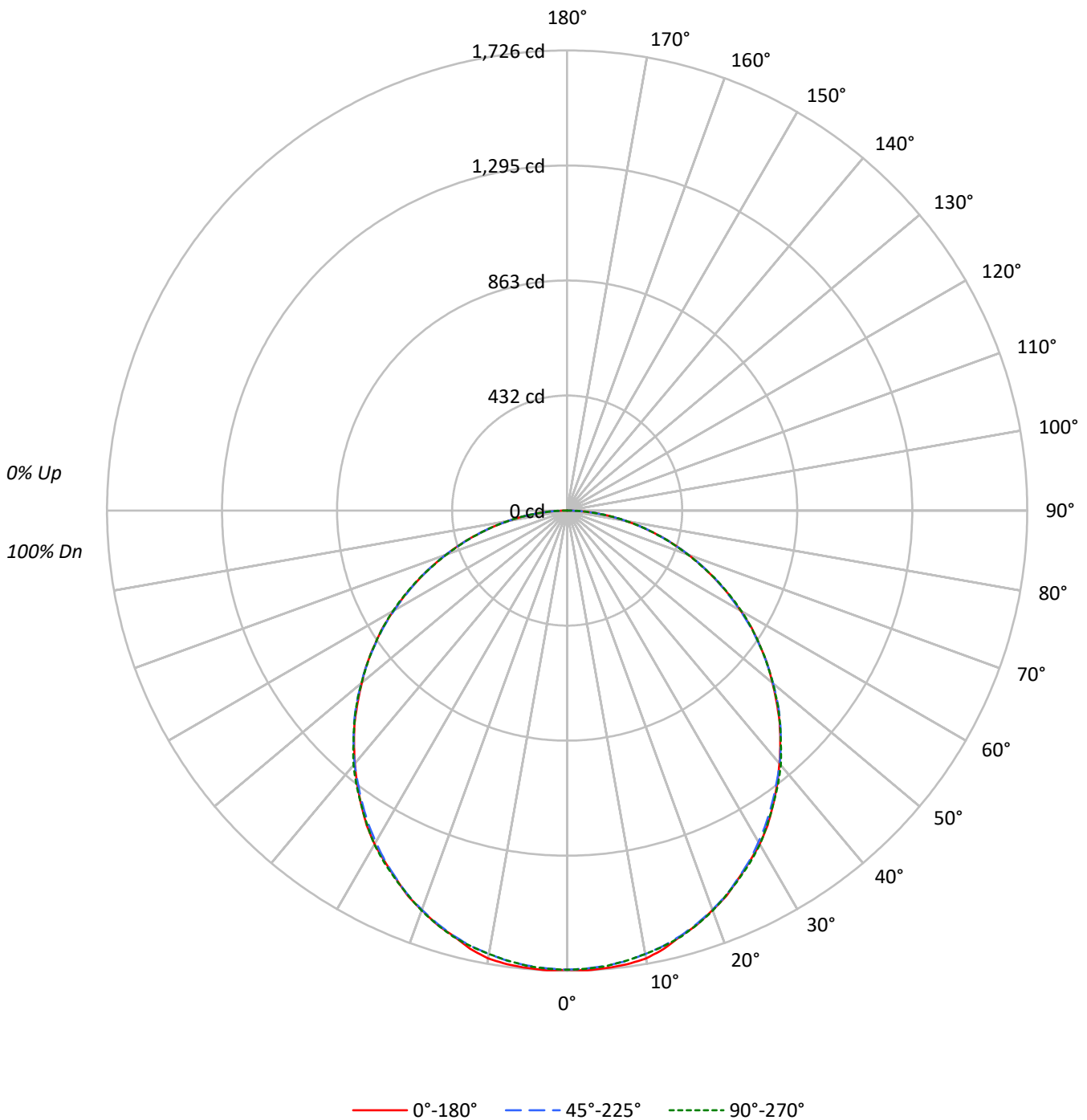
Input Watts (W): 46.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2317	2317	2317
5°	2326	2314	2315
10°	2331	2307	2307
15°	2300	2299	2304
20°	2283	2281	2287
25°	2258	2257	2264
30°	2244	2230	2246
35°	2213	2201	2213
40°	2176	2178	2190
45°	2145	2152	2147
50°	2104	2112	2107
55°	2072	2067	2072
60°	2023	2017	2036
65°	1961	1968	1976
70°	1897	1906	1893
75°	1830	1830	1830
80°	1729	1729	1747
85°	1596	1615	1561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	3.3
10°-20°	465.6	9.4
20°-30°	701.6	14.2
30°-40°	840.3	17.1
40°-50°	869.9	17.7
50°-60°	788.7	16.0
60°-70°	611.5	12.4
70°-80°	371.9	7.5
80°-90°	115.7	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°	1330.0	27.0
0°-40°	2170.4	44.0
0°-60°	3829.0	77.7
0°-90°	4928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1722	1712	1713	1711	1714	164
15°	1652	1653	1650	1644	1654	467
25°	1521	1521	1520	1525	1525	702
35°	1347	1338	1340	1346	1347	843
45°	1127	1130	1131	1126	1128	868
55°	883	879	881	884	883	789
65°	616	620	618	616	621	611
75°	352	351	352	351	352	372
85°	103	102	105	103	101	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1722.4	1722.4	1722.4	1722.4	1722.4
2.5°	1725.9	1718.9	1718.9	1716.6	1720.1
5°	1722.4	1711.9	1713.1	1710.8	1714.3
7.5°	1716.6	1702.6	1703.8	1701.5	1702.6
10°	1706.1	1689.9	1688.7	1687.5	1688.7
12.5°	1682.9	1673.6	1672.4	1670.1	1673.6
15°	1651.5	1652.7	1650.3	1644.5	1653.8
17.5°	1627.1	1625.9	1623.6	1617.8	1627.1
20°	1594.5	1595.7	1593.4	1591.1	1596.9
22.5°	1563.2	1559.7	1560.8	1559.7	1560.8
25°	1521.3	1521.3	1520.2	1524.8	1524.8
27.5°	1483.0	1478.3	1480.7	1485.3	1487.6
30°	1444.6	1433.0	1435.3	1440.0	1445.8
32.5°	1399.3	1387.7	1390.0	1394.6	1397.0
35°	1347.0	1337.7	1340.0	1345.8	1347.0
37.5°	1293.5	1287.7	1290.1	1294.7	1298.2
40°	1238.9	1236.6	1240.1	1238.9	1247.0
42.5°	1183.1	1182.0	1185.5	1185.5	1186.6
45°	1127.3	1129.7	1130.8	1126.2	1128.5
47.5°	1065.7	1066.9	1071.6	1069.2	1070.4
50°	1005.3	1004.1	1008.8	1010.0	1006.5
52.5°	947.2	941.4	946.0	948.4	946.0
55°	883.3	878.6	881.0	884.4	883.3
57.5°	820.5	815.9	817.0	822.8	820.5
60°	751.9	750.8	749.6	754.3	756.6
62.5°	684.5	683.4	681.1	685.7	688.0
65°	616.0	619.5	618.3	616.0	620.6
67.5°	550.9	554.4	550.9	548.6	548.6
70°	482.3	485.8	484.6	482.3	481.2
72.5°	418.4	418.4	416.1	414.9	416.1
75°	352.1	351.0	352.1	351.0	352.1
77.5°	287.1	288.2	288.2	288.2	287.1
80°	223.1	223.1	223.1	224.3	225.5
82.5°	163.9	160.4	163.9	161.5	162.7
85°	103.4	102.3	104.6	103.4	101.1
87.5°	46.5	47.7	47.7	48.8	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)