

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: P294272

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294272
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-L82765-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: 5668.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

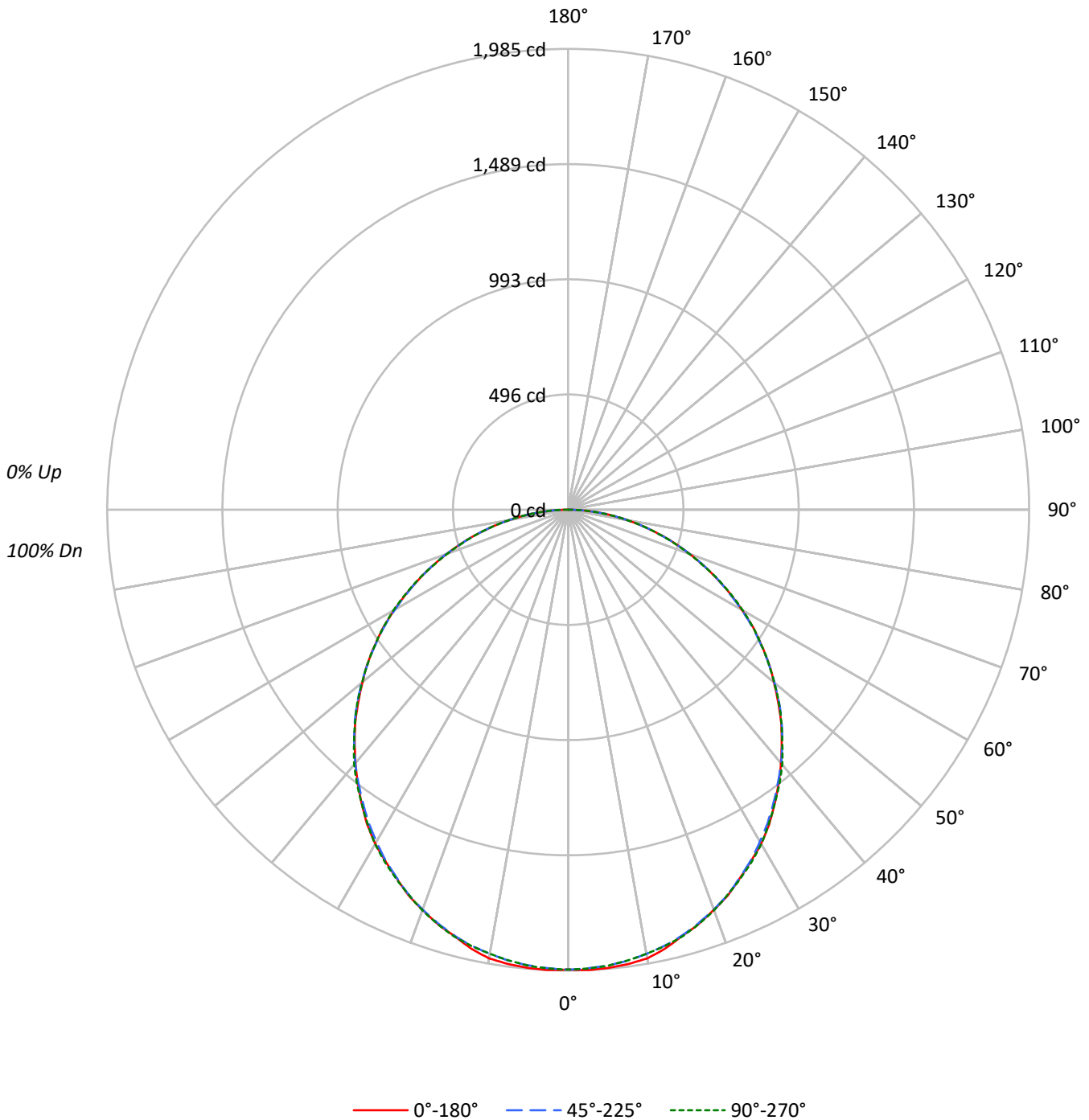
Input Watts (W): 46.779
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2665	2665	2665
5°	2676	2661	2663
10°	2681	2654	2654
15°	2646	2644	2650
20°	2626	2624	2630
25°	2598	2596	2604
30°	2582	2565	2584
35°	2545	2531	2545
40°	2503	2505	2519
45°	2467	2475	2470
50°	2420	2429	2423
55°	2383	2377	2383
60°	2327	2320	2342
65°	2256	2264	2273
70°	2182	2193	2177
75°	2105	2105	2105
80°	1989	1989	2009
85°	1837	1857	1795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	3.3
10°-20°	535.5	9.4
20°-30°	807.0	14.2
30°-40°	966.5	17.1
40°-50°	1000.5	17.7
50°-60°	907.1	16.0
60°-70°	703.3	12.4
70°-80°	427.7	7.5
80°-90°	133.1	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°	1529.8	27.0
0°-40°	2496.3	44.0
0°-60°	4403.9	77.7
0°-90°	5668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1981	1981	1981	1981	1981	
5°	1981	1969	1970	1968	1972	189
15°	1900	1901	1898	1892	1902	537
25°	1750	1750	1748	1754	1754	808
35°	1549	1539	1541	1548	1549	969
45°	1297	1299	1301	1295	1298	999
55°	1016	1011	1013	1017	1016	908
65°	708	712	711	708	714	703
75°	405	404	405	404	405	428
85°	119	118	120	119	116	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1981.0	1981.0	1981.0	1981.0	1981.0
2.5°	1985.0	1977.0	1977.0	1974.3	1978.4
5°	1981.0	1969.0	1970.3	1967.7	1971.7
7.5°	1974.3	1958.3	1959.6	1957.0	1958.3
10°	1962.3	1943.6	1942.3	1940.9	1942.3
12.5°	1935.6	1924.9	1923.6	1920.9	1924.9
15°	1899.5	1900.8	1898.2	1891.5	1902.2
17.5°	1871.4	1870.1	1867.4	1860.7	1871.4
20°	1834.0	1835.3	1832.7	1830.0	1836.7
22.5°	1797.9	1793.9	1795.2	1793.9	1795.2
25°	1749.8	1749.8	1748.4	1753.8	1753.8
27.5°	1705.7	1700.3	1703.0	1708.3	1711.0
30°	1661.6	1648.2	1650.9	1656.2	1662.9
32.5°	1609.4	1596.1	1598.7	1604.1	1606.7
35°	1549.3	1538.6	1541.2	1547.9	1549.3
37.5°	1487.8	1481.1	1483.8	1489.1	1493.1
40°	1425.0	1422.3	1426.3	1425.0	1434.3
42.5°	1360.8	1359.5	1363.5	1363.5	1364.8
45°	1296.6	1299.3	1300.6	1295.3	1298.0
47.5°	1225.8	1227.1	1232.5	1229.8	1231.1
50°	1156.3	1154.9	1160.3	1161.6	1157.6
52.5°	1089.4	1082.7	1088.1	1090.8	1088.1
55°	1015.9	1010.6	1013.2	1017.3	1015.9
57.5°	943.7	938.4	939.7	946.4	943.7
60°	864.9	863.5	862.2	867.5	870.2
62.5°	787.3	786.0	783.3	788.7	791.3
65°	708.5	712.5	711.1	708.5	713.8
67.5°	633.6	637.6	633.6	630.9	630.9
70°	554.7	558.8	557.4	554.7	553.4
72.5°	481.2	481.2	478.5	477.2	478.5
75°	405.0	403.7	405.0	403.7	405.0
77.5°	330.2	331.5	331.5	331.5	330.2
80°	256.7	256.7	256.7	258.0	259.3
82.5°	188.5	184.5	188.5	185.8	187.1
85°	119.0	117.6	120.3	119.0	116.3
87.5°	53.5	54.8	54.8	56.1	56.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)