

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: P294274

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294274
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5802.0 lumens
Efficiency: N/A
Efficacy: 122.8 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

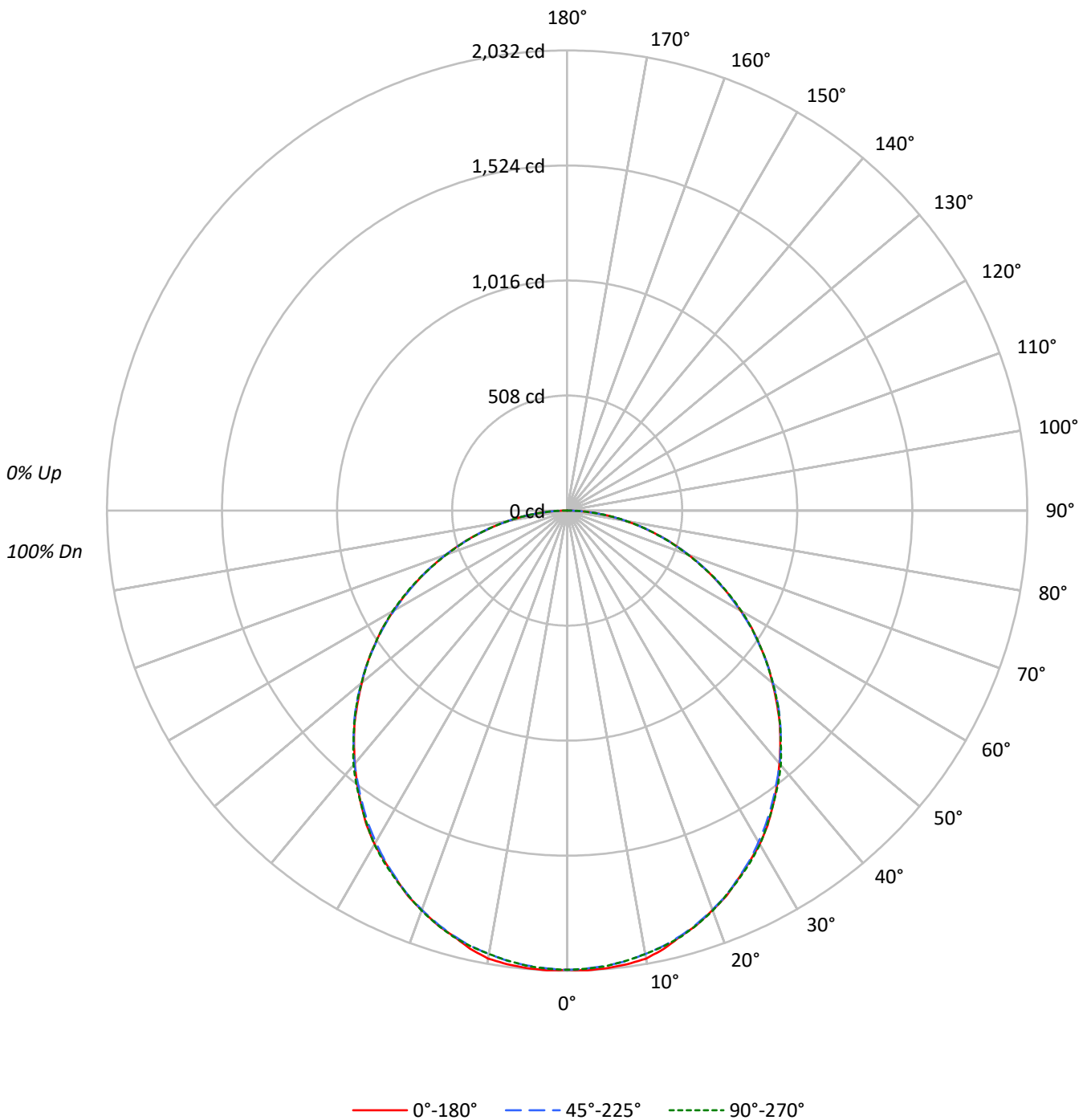
Input Watts (W): 47.244
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2729	2729	2729
5°	2739	2724	2726
10°	2744	2716	2716
15°	2708	2707	2712
20°	2688	2686	2692
25°	2659	2657	2665
30°	2642	2625	2645
35°	2605	2591	2605
40°	2562	2564	2579
45°	2526	2533	2528
50°	2478	2486	2480
55°	2439	2433	2439
60°	2382	2375	2397
65°	2309	2318	2326
70°	2234	2245	2229
75°	2155	2155	2155
80°	2035	2035	2057
85°	1880	1900	1837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	3.3
10°-20°	548.1	9.4
20°-30°	826.0	14.2
30°-40°	989.4	17.1
40°-50°	1024.1	17.7
50°-60°	928.6	16.0
60°-70°	719.9	12.4
70°-80°	437.8	7.5
80°-90°	136.2	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°	1565.9	27.0
0°-40°	2555.3	44.0
0°-60°	4508.0	77.7
0°-90°	5802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	2028	2016	2017	2014	2018	193
15°	1944	1946	1943	1936	1947	550
25°	1791	1791	1790	1795	1795	827
35°	1586	1575	1578	1584	1586	992
45°	1327	1330	1331	1326	1329	1022
55°	1040	1034	1037	1041	1040	929
65°	725	729	728	725	731	719
75°	415	413	415	413	415	438
85°	122	120	123	122	119	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2027.9	2027.9	2027.9	2027.9	2027.9
2.5°	2032.0	2023.8	2023.8	2021.0	2025.1
5°	2027.9	2015.6	2016.9	2014.2	2018.3
7.5°	2021.0	2004.6	2006.0	2003.2	2004.6
10°	2008.7	1989.6	1988.2	1986.8	1988.2
12.5°	1981.3	1970.4	1969.0	1966.3	1970.4
15°	1944.4	1945.8	1943.0	1936.2	1947.1
17.5°	1915.7	1914.3	1911.6	1904.7	1915.7
20°	1877.3	1878.7	1876.0	1873.2	1880.1
22.5°	1840.4	1836.3	1837.7	1836.3	1837.7
25°	1791.1	1791.1	1789.8	1795.2	1795.2
27.5°	1746.0	1740.5	1743.3	1748.7	1751.5
30°	1700.8	1687.2	1689.9	1695.4	1702.2
32.5°	1647.5	1633.8	1636.5	1642.0	1644.7
35°	1585.9	1574.9	1577.7	1584.5	1585.9
37.5°	1523.0	1516.1	1518.8	1524.3	1528.4
40°	1458.6	1455.9	1460.0	1458.6	1468.2
42.5°	1393.0	1391.6	1395.7	1395.7	1397.1
45°	1327.3	1330.0	1331.4	1325.9	1328.6
47.5°	1254.8	1256.1	1261.6	1258.9	1260.2
50°	1183.6	1182.2	1187.7	1189.1	1185.0
52.5°	1115.2	1108.3	1113.8	1116.6	1113.8
55°	1039.9	1034.5	1037.2	1041.3	1039.9
57.5°	966.0	960.6	961.9	968.8	966.0
60°	885.3	883.9	882.6	888.0	890.8
62.5°	805.9	804.6	801.8	807.3	810.1
65°	725.2	729.3	728.0	725.2	730.7
67.5°	648.6	652.7	648.6	645.9	645.9
70°	567.9	572.0	570.6	567.9	566.5
72.5°	492.6	492.6	489.9	488.5	489.9
75°	414.6	413.2	414.6	413.2	414.6
77.5°	338.0	339.3	339.3	339.3	338.0
80°	262.7	262.7	262.7	264.1	265.5
82.5°	192.9	188.8	192.9	190.2	191.6
85°	121.8	120.4	123.1	121.8	119.0
87.5°	54.7	56.1	56.1	57.5	57.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)