

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: P290706

Luminaire Tested: **14GR-LD5-24-F1-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-F1-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2275.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

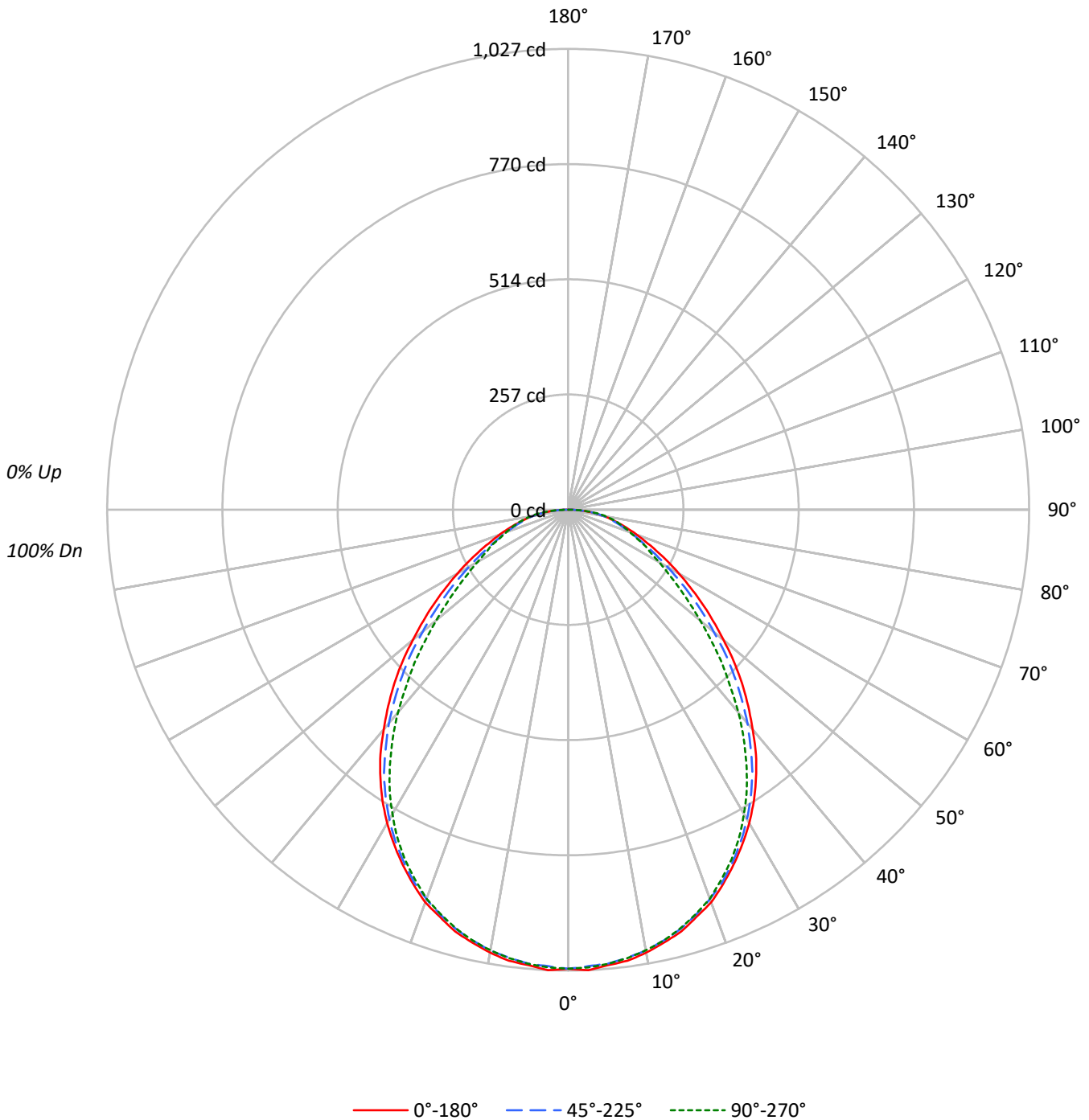
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2753	2753	2753
5°	2753	2743	2744
10°	2739	2726	2725
15°	2711	2695	2691
20°	2667	2645	2642
25°	2590	2573	2555
30°	2507	2476	2434
35°	2396	2350	2273
40°	2244	2182	2074
45°	2084	1990	1846
50°	1891	1773	1607
55°	1710	1566	1404
60°	1535	1372	1252
65°	1378	1225	1199
70°	1272	1141	1153
75°	1214	1144	1209
80°	1229	1220	1317
85°	1272	1257	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	4.2
10°-20°	273.1	12.0
20°-30°	398.8	17.5
30°-40°	444.3	19.5
40°-50°	400.4	17.6
50°-60°	299.3	13.2
60°-70°	197.4	8.7
70°-80°	120.5	5.3
80°-90°	44.7	2.0
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°	768.4	33.8
0°-40°	1212.7	53.3
0°-60°	1912.4	84.1
0°-90°	2275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1019	1018	1015	1020	1016	97
15°	973	969	967	973	966	274
25°	872	869	867	868	860	402
35°	730	723	716	703	692	455
45°	548	542	523	499	485	421
55°	364	359	334	306	299	326
65°	216	210	192	185	188	217
75°	117	115	110	114	116	125
85°	41	40	41	45	45	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.1	1023.1	1023.1	1023.1	1023.1
2.5°	1027.3	1022.6	1018.4	1024.7	1021.0
5°	1019.0	1017.9	1015.3	1020.5	1015.8
7.5°	1013.7	1010.1	1007.0	1013.2	1008.0
10°	1002.3	1000.2	997.6	1002.8	997.1
12.5°	988.2	986.1	983.5	989.8	983.5
15°	973.1	969.4	967.3	973.1	965.8
17.5°	951.2	949.6	946.5	952.2	944.9
20°	931.3	925.6	923.5	927.7	922.5
22.5°	902.7	898.5	898.0	900.6	891.7
25°	872.4	869.3	866.7	868.2	860.4
27.5°	840.6	836.4	833.3	832.8	824.4
30°	806.7	801.5	796.8	792.6	783.2
32.5°	769.7	763.4	757.2	750.4	740.5
35°	729.5	723.3	715.5	702.9	692.0
37.5°	687.3	680.0	667.5	652.9	641.9
40°	638.8	635.2	621.1	602.3	590.3
42.5°	593.4	589.3	571.5	550.7	534.5
45°	547.5	541.8	523.0	499.0	485.0
47.5°	500.6	494.9	474.0	444.3	431.8
50°	451.6	448.5	423.4	396.3	383.8
52.5°	406.7	403.1	377.5	350.4	339.0
55°	364.5	358.8	333.7	306.1	299.3
57.5°	322.3	316.0	292.5	269.1	264.4
60°	285.2	277.4	255.0	236.7	232.6
62.5°	250.3	241.4	222.7	208.6	206.5
65°	216.4	209.6	192.4	184.6	188.3
67.5°	187.2	180.4	167.9	164.8	163.7
70°	161.7	155.4	145.0	146.0	146.5
72.5°	138.2	134.5	126.7	129.3	131.4
75°	116.8	114.7	110.0	113.7	116.3
77.5°	97.5	96.0	93.9	97.0	101.2
80°	79.3	78.2	78.7	80.8	85.0
82.5°	61.0	58.9	60.5	64.7	67.3
85°	41.2	39.6	40.7	44.8	45.4
87.5°	19.3	19.3	18.8	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)