

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: P290897

Luminaire Tested: **14GR-LD5-24-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-F125-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2065.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

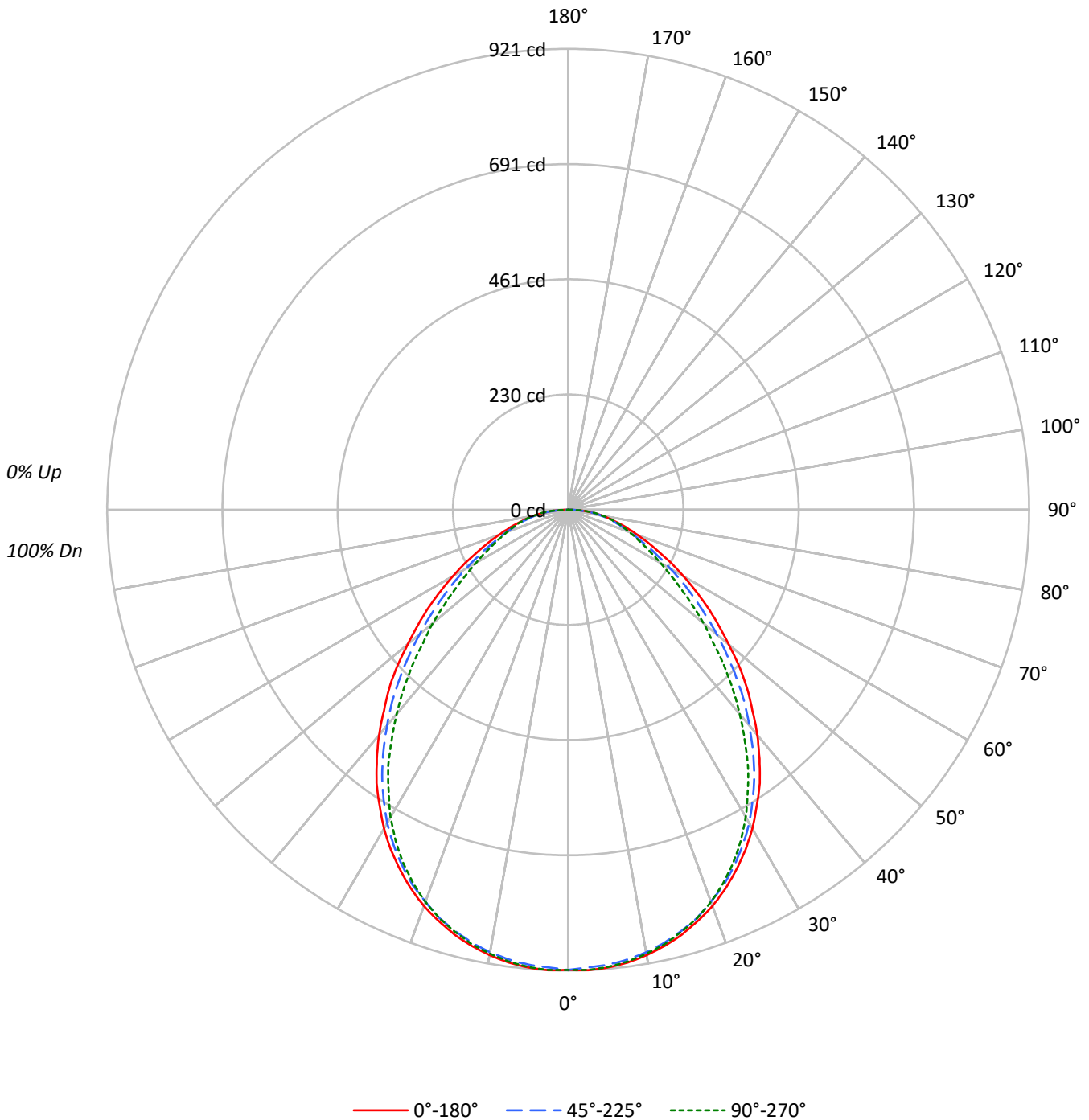
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2475	2475	2475
5°	2481	2465	2478
10°	2470	2454	2462
15°	2448	2429	2433
20°	2414	2387	2389
25°	2359	2330	2314
30°	2286	2247	2205
35°	2192	2129	2059
40°	2065	1977	1873
45°	1926	1810	1675
50°	1751	1623	1479
55°	1594	1439	1289
60°	1429	1268	1145
65°	1275	1130	1053
70°	1159	1030	1018
75°	1083	1003	1053
80°	1089	1037	1097
85°	1136	1062	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	4.2
10°-20°	246.6	11.9
20°-30°	361.6	17.5
30°-40°	403.6	19.5
40°-50°	365.4	17.7
50°-60°	275.9	13.4
60°-70°	180.3	8.7
70°-80°	105.9	5.1
80°-90°	38.8	1.9
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°	695.2	33.7
0°-40°	1098.7	53.2
0°-60°	1740.0	84.3
0°-90°	2065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	918	917	913	918	918	87
15°	879	877	872	877	873	248
25°	794	792	785	783	779	365
35°	667	662	648	634	627	416
45°	506	498	476	450	440	389
55°	340	332	307	283	275	304
65°	200	194	177	167	165	201
75°	104	101	96	98	101	112
85°	37	35	34	39	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.9	919.9	919.9	919.9	919.9
2.5°	921.4	919.9	915.6	921.4	920.9
5°	918.5	916.6	912.7	918.0	917.5
7.5°	912.7	910.7	906.9	911.7	910.7
10°	903.9	902.0	898.1	903.5	901.0
12.5°	892.8	890.9	886.5	891.3	889.4
15°	878.7	877.3	872.0	876.8	873.4
17.5°	861.8	859.4	855.5	858.4	856.0
20°	842.9	840.0	833.7	836.6	834.2
22.5°	820.1	816.2	811.9	811.9	808.5
25°	794.4	791.5	784.7	783.3	779.4
27.5°	766.8	764.4	755.6	753.2	746.4
30°	735.8	732.4	723.2	715.4	709.6
32.5°	701.3	698.9	686.3	676.1	667.9
35°	667.4	661.6	648.0	633.5	626.7
37.5°	627.7	623.3	606.3	588.4	579.2
40°	587.9	582.6	562.7	542.9	533.2
42.5°	544.8	539.9	521.0	497.3	487.1
45°	506.0	498.3	475.5	449.8	440.1
47.5°	463.4	455.1	430.9	403.7	392.6
50°	418.3	413.0	387.8	361.6	353.3
52.5°	378.1	369.8	346.1	320.4	311.7
55°	339.8	332.0	306.8	282.6	274.8
57.5°	301.5	292.8	270.9	249.1	241.4
60°	265.6	256.9	235.6	217.6	212.8
62.5°	233.1	223.4	204.5	190.5	187.1
65°	200.2	193.9	177.4	167.2	165.3
67.5°	172.6	164.8	151.7	146.9	145.9
70°	147.3	142.0	130.9	129.4	129.4
72.5°	124.6	120.2	112.0	112.9	114.4
75°	104.2	101.3	96.5	98.4	101.3
77.5°	86.8	83.9	80.9	83.9	85.8
80°	70.3	67.4	66.9	69.3	70.8
82.5°	52.8	50.4	50.9	54.8	56.2
85°	36.8	35.4	34.4	38.8	39.3
87.5°	18.9	17.9	17.4	20.8	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)