

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: P290857

Luminaire Tested: **14GR-LD5-24-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290857
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-L93050-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: 2051.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

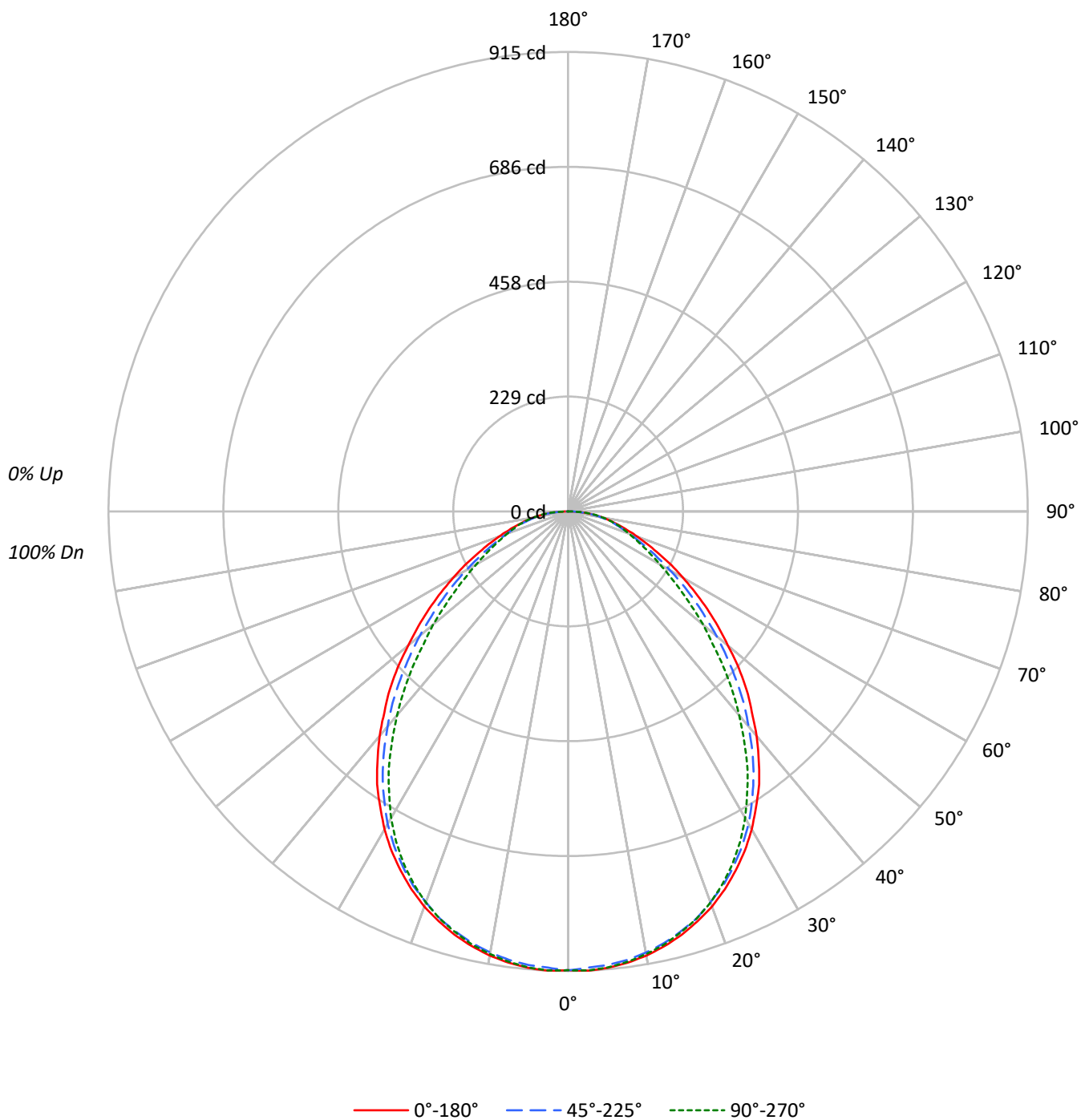
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	88
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		51	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2459	2459	2459
5°	2464	2449	2462
10°	2453	2437	2445
15°	2432	2413	2417
20°	2397	2371	2373
25°	2343	2314	2298
30°	2271	2232	2190
35°	2178	2114	2045
40°	2051	1963	1860
45°	1913	1797	1663
50°	1739	1612	1469
55°	1583	1430	1281
60°	1420	1259	1137
65°	1266	1122	1046
70°	1151	1023	1011
75°	1076	996	1046
80°	1082	1029	1089
85°	1130	1056	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	4.2
10°-20°	244.9	11.9
20°-30°	359.1	17.5
30°-40°	400.8	19.5
40°-50°	362.9	17.7
50°-60°	274.0	13.4
60°-70°	179.1	8.7
70°-80°	105.2	5.1
80°-90°	38.5	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°	690.5	33.7
0°-40°	1091.3	53.2
0°-60°	1728.2	84.3
0°-90°	2051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	912	910	906	912	911	87
15°	873	871	866	871	868	246
25°	789	786	779	778	774	363
35°	663	657	644	629	622	413
45°	503	495	472	447	437	386
55°	338	330	305	281	273	302
65°	199	193	176	166	164	199
75°	104	101	96	98	101	111
85°	37	35	34	38	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.7	913.7	913.7	913.7	913.7
2.5°	915.2	913.7	909.4	915.2	914.7
5°	912.3	910.3	906.5	911.8	911.3
7.5°	906.5	904.6	900.7	905.5	904.6
10°	897.8	895.9	892.0	897.3	894.9
12.5°	886.7	884.8	880.5	885.3	883.4
15°	872.8	871.3	866.0	870.9	867.5
17.5°	855.9	853.5	849.7	852.6	850.2
20°	837.2	834.3	828.0	830.9	828.5
22.5°	814.5	810.7	806.4	806.4	803.0
25°	789.0	786.1	779.4	778.0	774.1
27.5°	761.6	759.2	750.5	748.1	741.4
30°	730.8	727.4	718.3	710.6	704.8
32.5°	696.6	694.2	681.7	671.6	663.4
35°	662.9	657.1	643.6	629.2	622.5
37.5°	623.4	619.1	602.2	584.4	575.3
40°	583.9	578.6	558.9	539.2	529.5
42.5°	541.1	536.3	517.5	493.9	483.8
45°	502.6	494.9	472.3	446.7	437.1
47.5°	460.2	452.0	428.0	401.0	389.9
50°	415.5	410.2	385.1	359.1	350.9
52.5°	375.5	367.3	343.7	318.2	309.5
55°	337.5	329.8	304.7	280.7	273.0
57.5°	299.4	290.8	269.1	247.4	239.7
60°	263.8	255.1	234.0	216.2	211.3
62.5°	231.6	221.9	203.2	189.2	185.8
65°	198.8	192.6	176.2	166.1	164.2
67.5°	171.4	163.7	150.7	145.9	144.9
70°	146.3	141.1	130.0	128.5	128.5
72.5°	123.7	119.4	111.2	112.2	113.6
75°	103.5	100.6	95.8	97.7	100.6
77.5°	86.2	83.3	80.4	83.3	85.2
80°	69.8	66.9	66.4	68.8	70.3
82.5°	52.5	50.1	50.5	54.4	55.8
85°	36.6	35.1	34.2	38.5	39.0
87.5°	18.8	17.8	17.3	20.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)