

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: P290798

Luminaire Tested: **14GR-LD5-24-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290798
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-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2278.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

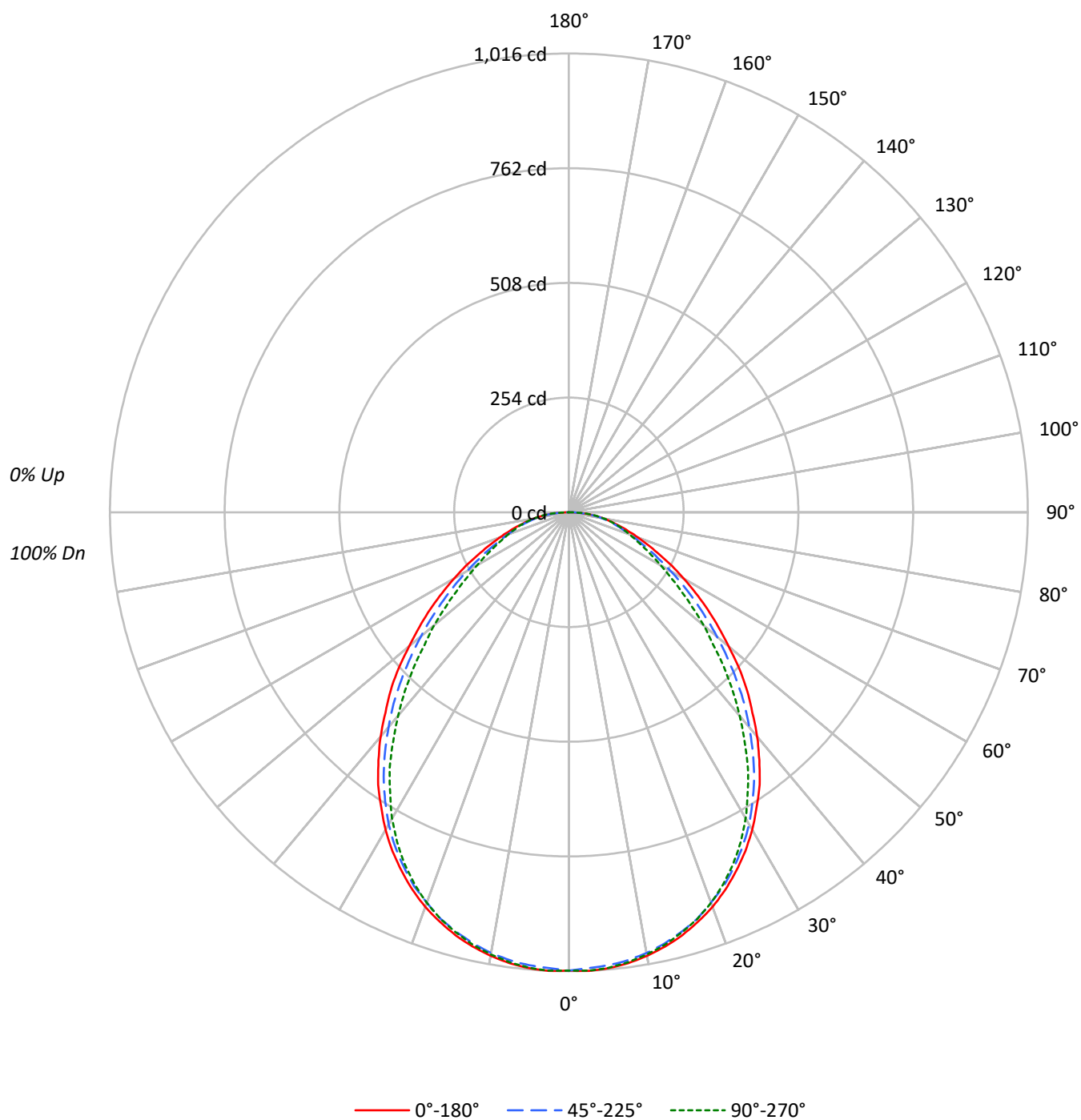
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2731	2731	2731
5°	2737	2720	2734
10°	2725	2707	2716
15°	2701	2680	2684
20°	2663	2634	2635
25°	2602	2570	2553
30°	2522	2479	2432
35°	2419	2349	2271
40°	2278	2181	2066
45°	2124	1996	1848
50°	1932	1791	1632
55°	1758	1588	1422
60°	1577	1399	1263
65°	1406	1246	1161
70°	1279	1136	1124
75°	1196	1106	1161
80°	1201	1144	1210
85°	1254	1173	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	4.2
10°-20°	272.0	11.9
20°-30°	398.9	17.5
30°-40°	445.2	19.5
40°-50°	403.1	17.7
50°-60°	304.3	13.4
60°-70°	198.9	8.7
70°-80°	116.8	5.1
80°-90°	42.8	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°	766.9	33.7
0°-40°	1212.1	53.2
0°-60°	1919.5	84.3
0°-90°	2278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1013	1011	1007	1013	1012	96
15°	969	968	962	967	964	273
25°	876	873	866	864	860	403
35°	736	730	715	699	691	459
45°	558	550	524	496	486	429
55°	375	366	338	312	303	335
65°	221	214	196	184	182	222
75°	115	112	106	108	112	123
85°	41	39	38	43	43	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1014.8	1014.8	1014.8	1014.8	1014.8
2.5°	1016.4	1014.8	1010.0	1016.4	1015.9
5°	1013.2	1011.1	1006.8	1012.7	1012.2
7.5°	1006.8	1004.7	1000.4	1005.7	1004.7
10°	997.2	995.1	990.8	996.7	994.0
12.5°	984.9	982.8	977.9	983.3	981.1
15°	969.4	967.8	961.9	967.2	963.5
17.5°	950.7	948.0	943.7	946.9	944.3
20°	929.8	926.6	919.7	922.9	920.2
22.5°	904.7	900.4	895.6	895.6	891.9
25°	876.4	873.1	865.7	864.1	859.8
27.5°	845.9	843.2	833.6	830.9	823.4
30°	811.7	807.9	797.8	789.2	782.8
32.5°	773.7	771.0	757.1	745.9	736.8
35°	736.3	729.8	714.9	698.8	691.3
37.5°	692.4	687.6	668.9	649.1	639.0
40°	648.6	642.7	620.8	598.8	588.2
42.5°	601.0	595.6	574.8	548.6	537.4
45°	558.2	549.7	524.5	496.2	485.5
47.5°	511.2	502.1	475.3	445.4	433.1
50°	461.4	455.6	427.7	398.9	389.8
52.5°	417.1	408.0	381.8	353.4	343.8
55°	374.8	366.3	338.5	311.7	303.2
57.5°	332.6	323.0	298.9	274.8	266.3
60°	293.0	283.4	259.9	240.1	234.7
62.5°	257.2	246.5	225.6	210.1	206.4
65°	220.8	213.9	195.7	184.5	182.3
67.5°	190.3	181.8	167.4	162.0	160.9
70°	162.5	156.7	144.4	142.8	142.8
72.5°	137.4	132.6	123.5	124.6	126.2
75°	115.0	111.7	106.4	108.5	111.7
77.5°	95.7	92.5	89.3	92.5	94.6
80°	77.5	74.3	73.8	76.5	78.1
82.5°	58.3	55.6	56.1	60.4	62.0
85°	40.6	39.0	38.0	42.8	43.3
87.5°	20.9	19.8	19.2	23.0	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)