

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: P290758

Luminaire Tested: **14GR-LD5-24-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290758
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-L83050-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: 2280.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

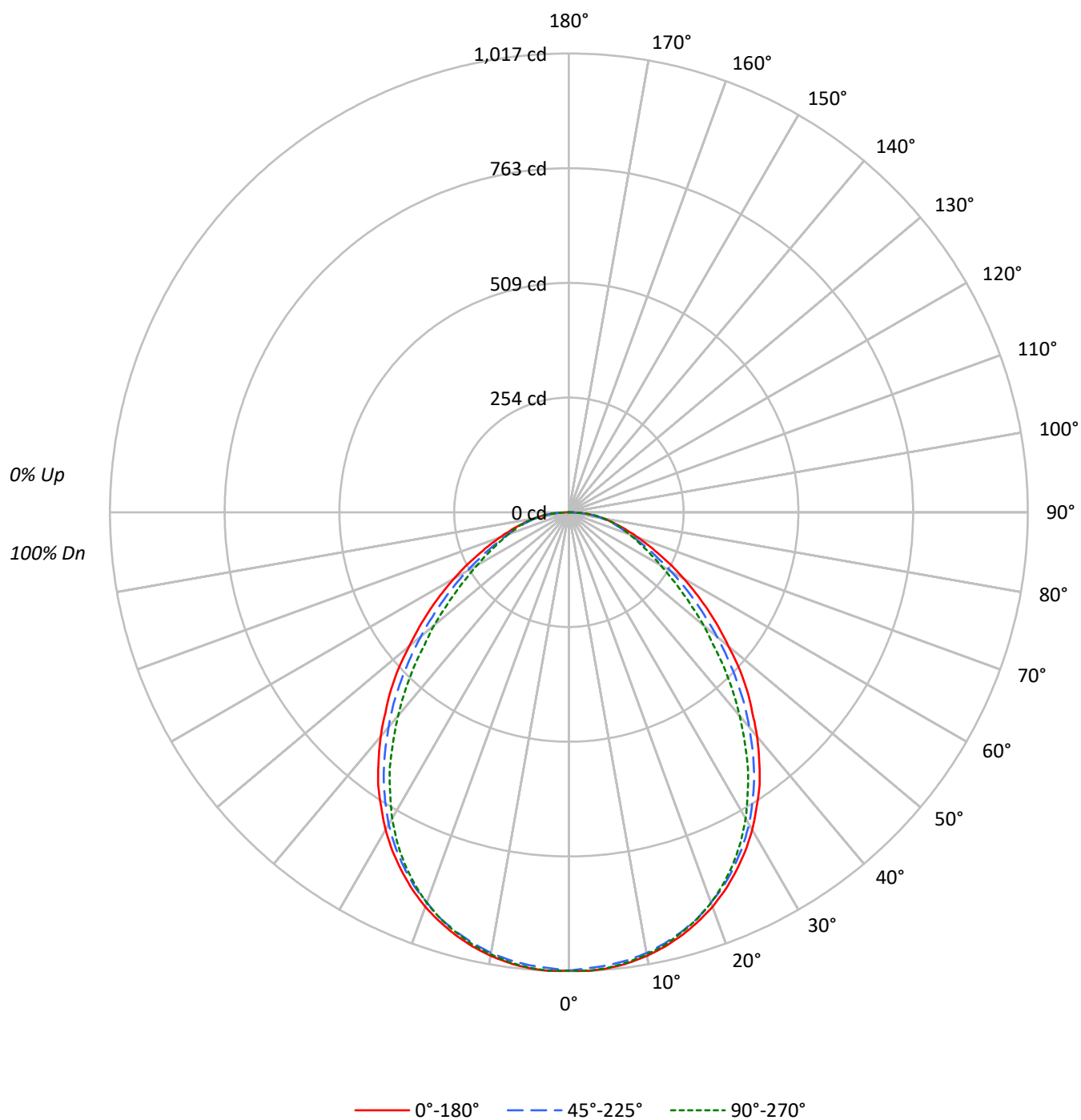
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		48
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		43
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		38
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		34
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		31
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2733	2733	2733
5°	2739	2722	2736
10°	2727	2710	2719
15°	2703	2682	2687
20°	2665	2636	2637
25°	2604	2572	2555
30°	2524	2481	2435
35°	2421	2350	2273
40°	2280	2183	2068
45°	2126	1998	1849
50°	1933	1792	1633
55°	1760	1590	1423
60°	1579	1400	1264
65°	1407	1247	1162
70°	1280	1137	1124
75°	1197	1107	1162
80°	1203	1145	1210
85°	1257	1173	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	4.2
10°-20°	272.3	11.9
20°-30°	399.2	17.5
30°-40°	445.6	19.5
40°-50°	403.4	17.7
50°-60°	304.6	13.4
60°-70°	199.1	8.7
70°-80°	116.9	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°	767.5	33.7
0°-40°	1213.1	53.2
0°-60°	1921.1	84.3
0°-90°	2280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1014	1012	1008	1014	1013	96
15°	970	969	963	968	964	273
25°	877	874	866	865	860	403
35°	737	730	716	699	692	459
45°	559	550	525	497	486	429
55°	375	367	339	312	303	336
65°	221	214	196	185	182	222
75°	115	112	106	109	112	124
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°	1015.7	1015.7	1015.7	1015.7	1015.7
2.5°	1017.3	1015.7	1010.9	1017.3	1016.8
5°	1014.1	1012.0	1007.7	1013.6	1013.0
7.5°	1007.7	1005.6	1001.3	1006.6	1005.6
10°	998.1	995.9	991.6	997.5	994.9
12.5°	985.8	983.6	978.8	984.2	982.0
15°	970.2	968.6	962.7	968.1	964.4
17.5°	951.5	948.8	944.5	947.8	945.1
20°	930.6	927.4	920.5	923.7	921.0
22.5°	905.5	901.2	896.4	896.4	892.6
25°	877.1	873.9	866.4	864.8	860.5
27.5°	846.6	843.9	834.3	831.6	824.1
30°	812.4	808.6	798.5	789.9	783.5
32.5°	774.4	771.7	757.8	746.5	737.4
35°	736.9	730.5	715.5	699.4	692.0
37.5°	693.0	688.2	669.5	649.7	639.5
40°	649.1	643.3	621.3	599.4	588.7
42.5°	601.5	596.2	575.3	549.1	537.8
45°	558.7	550.1	525.0	496.6	485.9
47.5°	511.6	502.5	475.8	445.8	433.5
50°	461.8	456.0	428.1	399.2	390.1
52.5°	417.4	408.3	382.1	353.7	344.1
55°	375.1	366.6	338.8	312.0	303.4
57.5°	332.9	323.2	299.2	275.1	266.5
60°	293.3	283.6	260.1	240.3	234.9
62.5°	257.4	246.7	225.8	210.3	206.6
65°	221.0	214.1	195.9	184.6	182.5
67.5°	190.5	182.0	167.5	162.2	161.1
70°	162.7	156.8	144.5	142.9	142.9
72.5°	137.5	132.7	123.6	124.7	126.3
75°	115.1	111.8	106.5	108.6	111.8
77.5°	95.8	92.6	89.4	92.6	94.7
80°	77.6	74.4	73.9	76.5	78.1
82.5°	58.3	55.7	56.2	60.5	62.1
85°	40.7	39.1	38.0	42.8	43.3
87.5°	20.9	19.8	19.3	23.0	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)