

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: P290851

Luminaire Tested: **14GR-LD5-20-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290851
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-LD5-20-F125-UNV-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1603.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

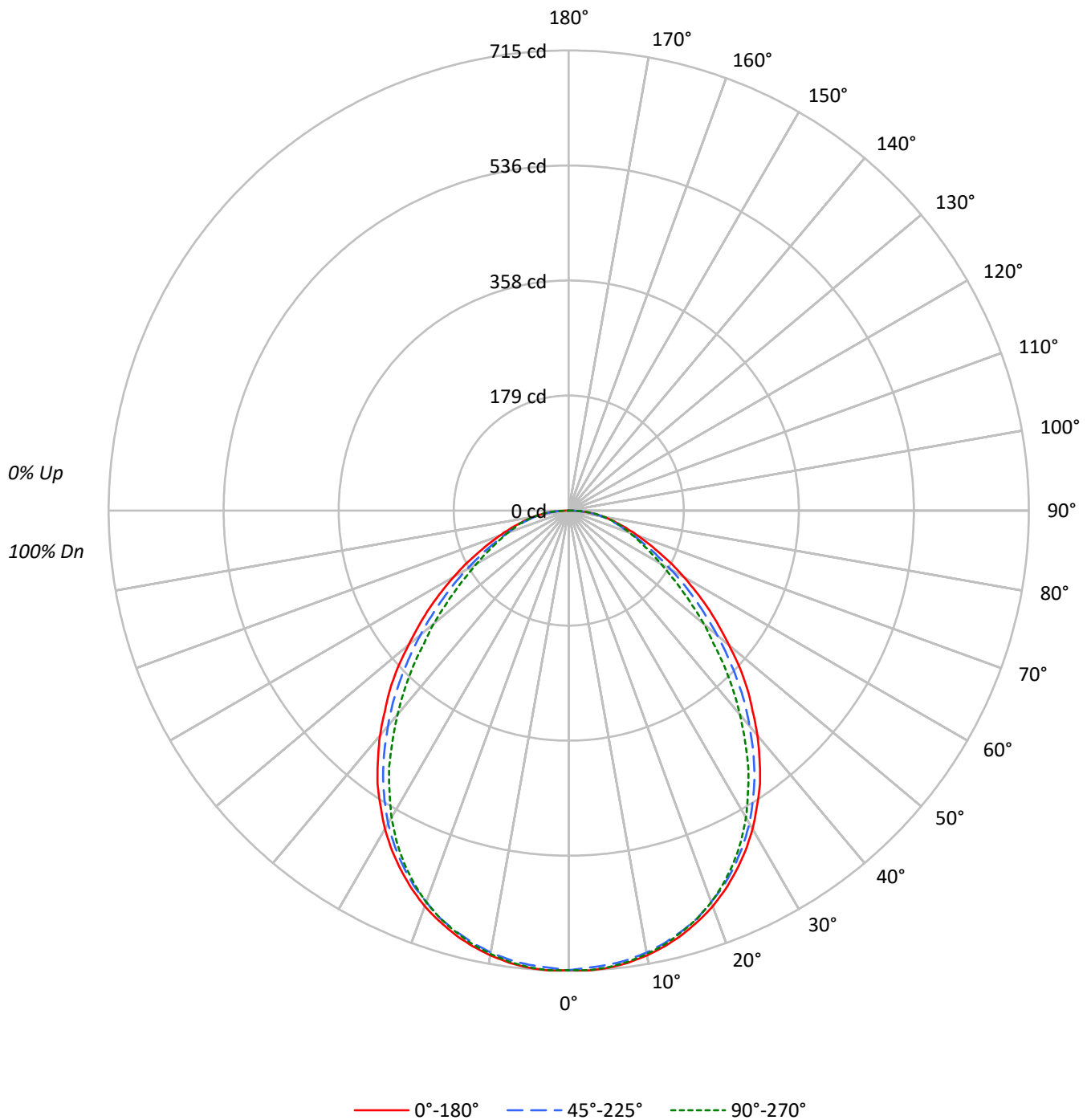
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1922	1922	1922
5°	1926	1914	1924
10°	1917	1905	1911
15°	1900	1886	1889
20°	1874	1853	1854
25°	1831	1809	1796
30°	1775	1744	1711
35°	1702	1652	1598
40°	1603	1534	1454
45°	1495	1405	1300
50°	1359	1260	1148
55°	1238	1118	1001
60°	1110	984	889
65°	989	877	817
70°	900	799	791
75°	841	779	817
80°	846	804	851
85°	883	824	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	4.2
10°-20°	191.4	11.9
20°-30°	280.7	17.5
30°-40°	313.3	19.5
40°-50°	283.6	17.7
50°-60°	214.2	13.4
60°-70°	140.0	8.7
70°-80°	82.2	5.1
80°-90°	30.1	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°	539.6	33.7
0°-40°	852.9	53.2
0°-60°	1350.7	84.3
0°-90°	1603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	713	712	708	713	712	68
15°	682	681	677	681	678	192
25°	617	614	609	608	605	284
35°	518	514	503	492	486	323
45°	393	387	369	349	342	302
55°	264	258	238	219	213	236
65°	155	150	138	130	128	156
75°	81	79	75	76	79	87
85°	29	28	27	30	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	714.1	714.1	714.1	714.1	714.1
2.5°	715.3	714.1	710.7	715.3	714.9
5°	713.0	711.5	708.5	712.6	712.2
7.5°	708.5	707.0	704.0	707.7	707.0
10°	701.7	700.2	697.2	701.3	699.5
12.5°	693.1	691.6	688.2	691.9	690.4
15°	682.1	681.0	676.9	680.6	678.0
17.5°	669.0	667.1	664.1	666.3	664.5
20°	654.3	652.0	647.2	649.4	647.5
22.5°	636.6	633.6	630.2	630.2	627.6
25°	616.7	614.4	609.2	608.0	605.0
27.5°	595.2	593.3	586.6	584.7	579.4
30°	571.2	568.5	561.4	555.3	550.8
32.5°	544.4	542.6	532.8	524.9	518.5
35°	518.1	513.6	503.0	491.8	486.5
37.5°	487.2	483.9	470.7	456.8	449.6
40°	456.4	452.3	436.8	421.4	413.9
42.5°	422.9	419.1	404.5	386.0	378.1
45°	392.8	386.8	369.1	349.2	341.6
47.5°	359.7	353.3	334.5	313.4	304.8
50°	324.7	320.6	301.0	280.7	274.3
52.5°	293.5	287.1	268.6	248.7	241.9
55°	263.8	257.7	238.2	219.4	213.3
57.5°	234.0	227.3	210.3	193.4	187.4
60°	206.2	199.4	182.9	168.9	165.2
62.5°	181.0	173.5	158.8	147.9	145.2
65°	155.4	150.5	137.7	129.8	128.3
67.5°	133.9	127.9	117.8	114.0	113.3
70°	114.4	110.2	101.6	100.5	100.5
72.5°	96.7	93.3	86.9	87.7	88.8
75°	80.9	78.6	74.9	76.4	78.6
77.5°	67.3	65.1	62.8	65.1	66.6
80°	54.6	52.3	51.9	53.8	54.9
82.5°	41.0	39.1	39.5	42.5	43.6
85°	28.6	27.5	26.7	30.1	30.5
87.5°	14.7	13.9	13.5	16.2	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)