

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: P291280

Luminaire Tested: **14GR-LD5-20-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A125-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1784.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

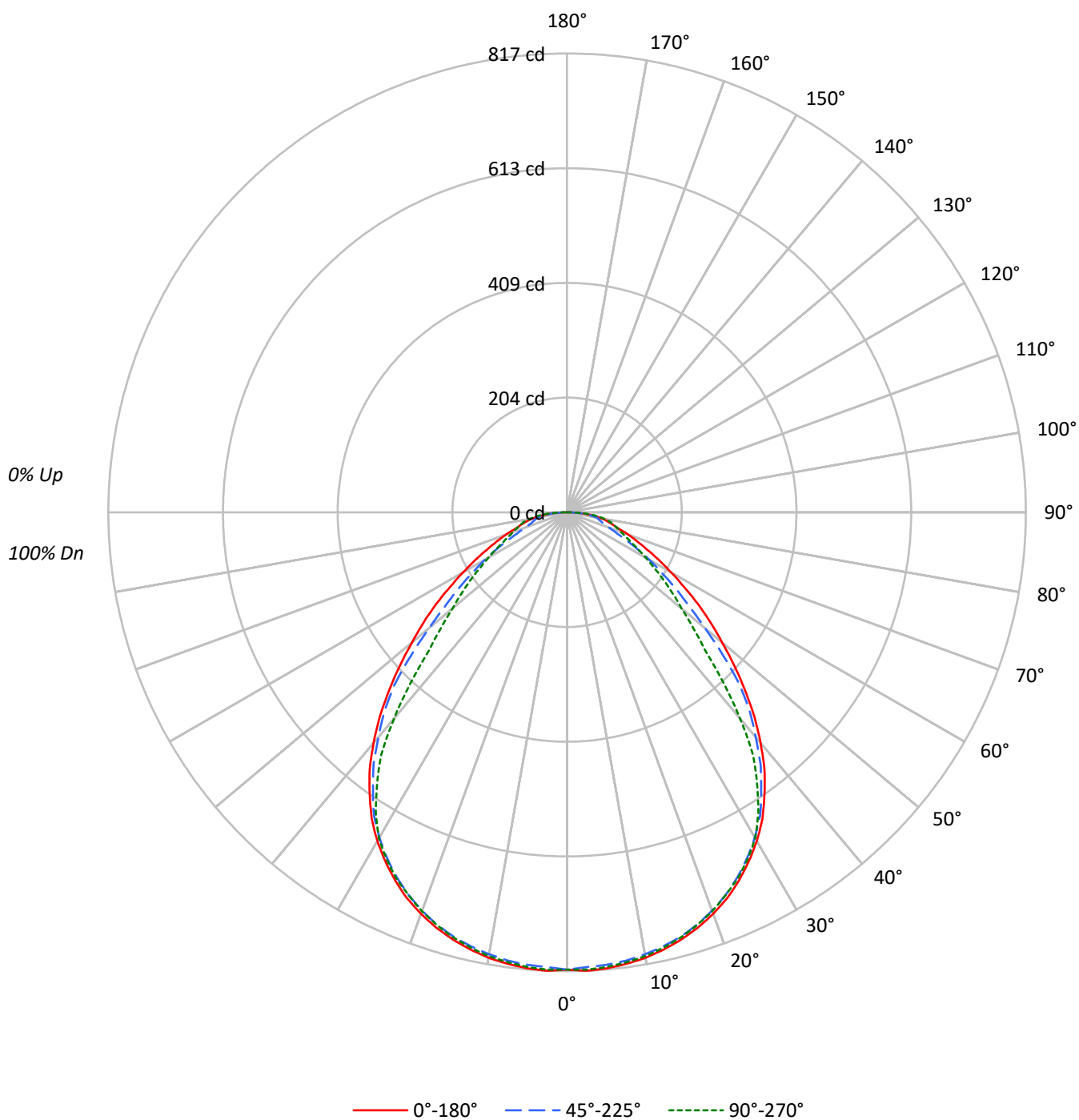
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		51
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2191	2191	2191
5°	2201	2185	2195
10°	2201	2184	2193
15°	2193	2179	2183
20°	2178	2162	2164
25°	2149	2129	2136
30°	2100	2077	2082
35°	2014	1980	1938
40°	1883	1836	1685
45°	1704	1655	1321
50°	1508	1339	1114
55°	1334	1101	982
60°	1152	911	871
65°	1002	725	801
70°	906	622	801
75°	869	650	895
80°	969	828	1046
85°	1022	883	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	4.3
10°-20°	221.3	12.4
20°-30°	331.2	18.6
30°-40°	374.9	21.0
40°-50°	319.3	17.9
50°-60°	216.2	12.1
60°-70°	129.1	7.2
70°-80°	80.7	4.5
80°-90°	34.1	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°	629.7	35.3
0°-40°	1004.6	56.3
0°-60°	1540.2	86.3
0°-90°	1784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	815	813	809	814	812	77
15°	787	784	782	787	784	222
25°	724	722	717	721	719	333
35°	613	609	603	596	590	382
45°	448	449	435	371	347	345
55°	284	269	235	209	209	254
65°	157	131	114	122	126	159
75°	84	75	62	82	86	90
85°	33	31	29	36	41	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.1	814.1	814.1	814.1	814.1
2.5°	817.0	814.9	810.4	815.8	814.9
5°	814.9	812.9	808.7	813.7	812.4
7.5°	810.8	808.7	805.0	810.0	807.9
10°	805.4	802.9	799.2	804.6	802.5
12.5°	797.1	794.6	791.3	796.7	793.8
15°	787.2	784.3	782.2	787.2	783.5
17.5°	775.2	772.7	769.8	774.8	770.6
20°	760.7	758.6	754.9	757.8	755.7
22.5°	744.2	741.3	737.5	740.8	737.9
25°	723.9	721.8	717.2	720.6	719.3
27.5°	700.7	699.5	694.1	698.2	696.1
30°	675.9	672.5	668.4	669.7	670.1
32.5°	647.3	643.2	639.9	637.0	634.1
35°	613.0	609.2	602.6	596.4	589.8
37.5°	577.4	572.4	565.8	552.1	543.8
40°	536.0	533.5	522.7	503.7	479.7
42.5°	493.8	491.3	481.8	439.1	413.0
45°	447.8	449.1	435.0	370.8	347.2
47.5°	403.9	407.3	376.6	316.6	304.2
50°	360.1	363.8	319.9	273.6	266.1
52.5°	321.6	318.7	272.7	240.0	236.7
55°	284.3	268.6	234.7	209.4	209.4
57.5°	246.3	223.9	199.5	183.3	183.3
60°	214.0	186.2	169.3	158.5	161.8
62.5°	184.2	154.8	140.3	138.2	142.4
65°	157.3	131.2	113.8	121.7	125.8
67.5°	135.3	112.2	93.5	110.1	112.6
70°	115.1	97.7	79.1	101.4	101.8
72.5°	96.4	86.1	67.9	91.9	93.5
75°	83.6	74.9	62.5	81.9	86.1
77.5°	73.3	64.2	57.5	70.8	78.6
80°	62.5	52.6	53.4	59.6	67.5
82.5°	48.0	40.6	42.2	48.8	55.0
85°	33.1	30.6	28.6	36.0	40.6
87.5°	17.8	16.6	14.5	20.3	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)