

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: P290855

Luminaire Tested: **14GR-LD5-20-F125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290855
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1925.0 lumens
Efficiency: N/A
Efficacy: 119.0 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

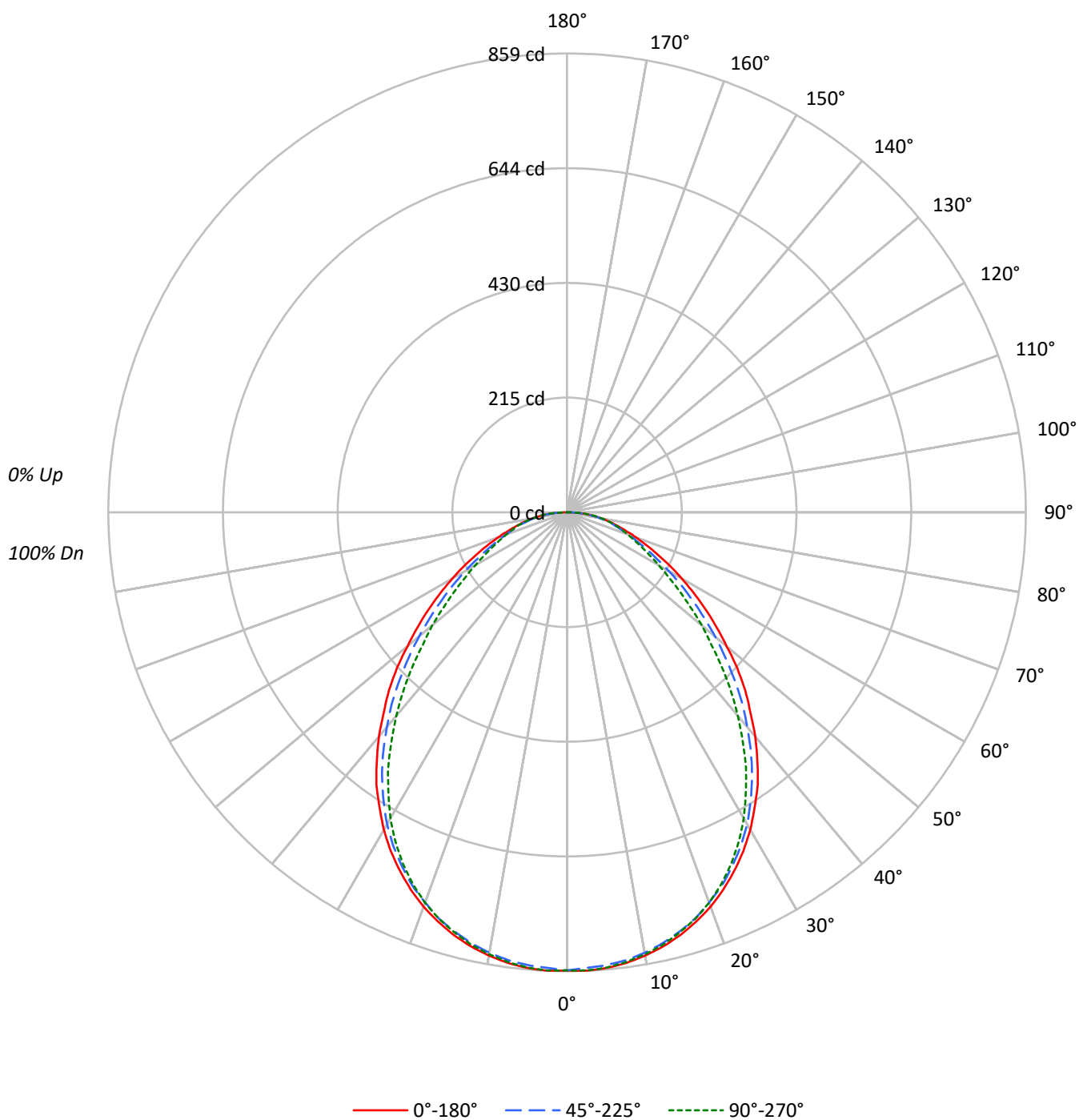
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2308	2308	2308
5°	2313	2298	2310
10°	2303	2288	2295
15°	2282	2264	2268
20°	2250	2225	2227
25°	2199	2172	2157
30°	2131	2095	2055
35°	2044	1985	1919
40°	1925	1843	1746
45°	1795	1687	1561
50°	1632	1513	1379
55°	1486	1342	1202
60°	1333	1182	1068
65°	1188	1053	981
70°	1081	960	949
75°	1010	935	981
80°	1015	967	1023
85°	1059	991	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	4.2
10°-20°	229.9	11.9
20°-30°	337.1	17.5
30°-40°	376.2	19.5
40°-50°	340.6	17.7
50°-60°	257.2	13.4
60°-70°	168.1	8.7
70°-80°	98.7	5.1
80°-90°	36.1	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°	648.0	33.7
0°-40°	1024.2	53.2
0°-60°	1622.0	84.3
0°-90°	1925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	856	854	851	856	855	81
15°	819	818	813	817	814	231
25°	741	738	732	730	726	341
35°	622	617	604	590	584	388
45°	472	464	443	419	410	362
55°	317	310	286	263	256	283
65°	187	181	165	156	154	187
75°	97	94	90	92	94	104
85°	34	33	32	36	37	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.6	857.6	857.6	857.6	857.6
2.5°	858.9	857.6	853.5	858.9	858.5
5°	856.2	854.4	850.8	855.8	855.3
7.5°	850.8	849.0	845.4	849.9	849.0
10°	842.7	840.9	837.2	842.2	840.0
12.5°	832.3	830.5	826.4	830.9	829.1
15°	819.2	817.8	812.8	817.4	814.2
17.5°	803.4	801.1	797.5	800.2	797.9
20°	785.7	783.0	777.1	779.9	777.6
22.5°	764.5	760.9	756.8	756.8	753.7
25°	740.6	737.8	731.5	730.2	726.5
27.5°	714.8	712.5	704.4	702.1	695.8
30°	685.9	682.7	674.1	666.9	661.5
32.5°	653.8	651.5	639.8	630.3	622.6
35°	622.2	616.7	604.1	590.5	584.2
37.5°	585.1	581.1	565.2	548.5	539.9
40°	548.1	543.1	524.6	506.1	497.0
42.5°	507.9	503.3	485.7	463.6	454.1
45°	471.7	464.5	443.2	419.3	410.3
47.5°	432.0	424.3	401.7	376.4	366.0
50°	389.9	385.0	361.5	337.1	329.4
52.5°	352.4	344.7	322.6	298.7	290.5
55°	316.7	309.5	286.0	263.4	256.2
57.5°	281.0	272.9	252.6	232.2	225.0
60°	247.6	239.5	219.6	202.9	198.4
62.5°	217.3	208.3	190.7	177.6	174.4
65°	186.6	180.7	165.4	155.9	154.1
67.5°	160.9	153.6	141.4	136.9	136.0
70°	137.4	132.4	122.0	120.6	120.6
72.5°	116.1	112.1	104.4	105.3	106.6
75°	97.1	94.4	89.9	91.7	94.4
77.5°	80.9	78.2	75.5	78.2	80.0
80°	65.5	62.8	62.4	64.6	66.0
82.5°	49.2	47.0	47.4	51.1	52.4
85°	34.3	33.0	32.1	36.1	36.6
87.5°	17.6	16.7	16.3	19.4	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)