

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: P291281

Luminaire Tested: **14GR-LD5-20-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291281
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1842.0 lumens
Efficiency: N/A
Efficacy: 117.2 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

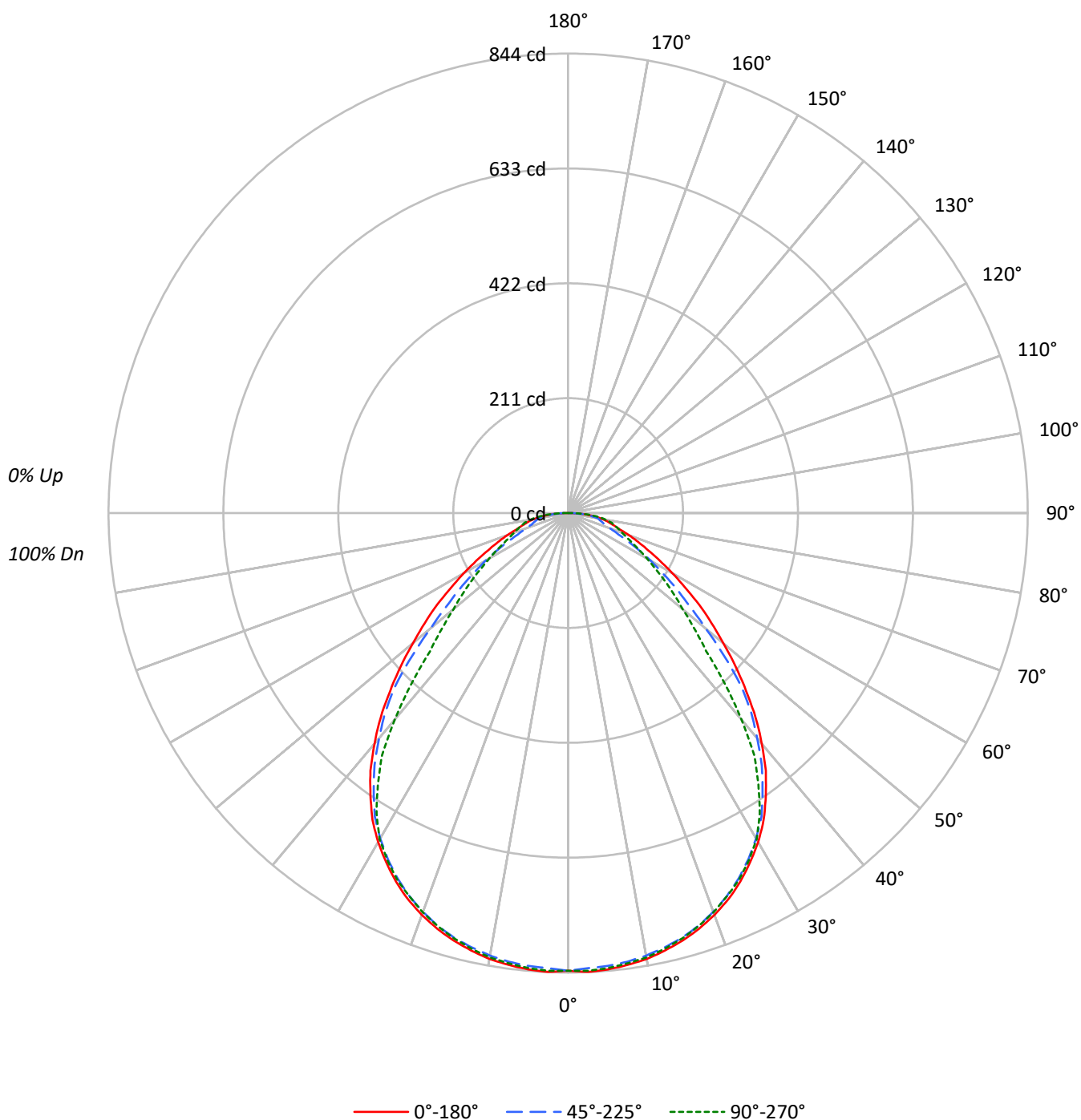
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		52
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°	2262	2262	2262
5°	2273	2256	2266
10°	2272	2255	2264
15°	2264	2250	2254
20°	2249	2232	2235
25°	2219	2199	2205
30°	2168	2144	2150
35°	2079	2044	2000
40°	1944	1896	1740
45°	1760	1709	1364
50°	1557	1383	1150
55°	1377	1137	1014
60°	1189	941	899
65°	1034	748	827
70°	935	642	827
75°	897	671	924
80°	1000	854	1080
85°	1056	911	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	4.3
10°-20°	228.5	12.4
20°-30°	342.0	18.6
30°-40°	387.1	21.0
40°-50°	329.7	17.9
50°-60°	223.2	12.1
60°-70°	133.3	7.2
70°-80°	83.3	4.5
80°-90°	35.2	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°	650.2	35.3
0°-40°	1037.3	56.3
0°-60°	1590.2	86.3
0°-90°	1842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	841	839	835	840	839	80
15°	813	810	808	813	809	229
25°	747	745	741	744	743	344
35°	633	629	622	616	609	394
45°	462	464	449	383	358	357
55°	294	277	242	216	216	263
65°	162	136	118	126	130	164
75°	86	77	64	85	89	93
85°	34	32	30	37	42	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	840.6	840.6	840.6	840.6	840.6
2.5°	843.6	841.4	836.7	842.3	841.4
5°	841.4	839.3	835.0	840.1	838.9
7.5°	837.1	835.0	831.2	836.3	834.2
10°	831.6	829.0	825.2	830.7	828.6
12.5°	823.0	820.5	817.1	822.6	819.6
15°	812.8	809.8	807.7	812.8	808.9
17.5°	800.4	797.8	794.8	800.0	795.7
20°	785.4	783.3	779.5	782.4	780.3
22.5°	768.3	765.4	761.5	764.9	761.9
25°	747.4	745.3	740.6	744.0	742.7
27.5°	723.5	722.2	716.6	720.9	718.8
30°	697.8	694.4	690.1	691.4	691.9
32.5°	668.3	664.1	660.7	657.7	654.7
35°	632.9	629.0	622.2	615.8	608.9
37.5°	596.1	591.0	584.2	570.1	561.5
40°	553.4	550.8	539.7	520.1	495.3
42.5°	509.8	507.2	497.4	453.4	426.5
45°	462.4	463.7	449.1	382.9	358.5
47.5°	417.1	420.5	388.9	326.9	314.1
50°	371.8	375.6	330.3	282.5	274.8
52.5°	332.0	329.0	281.6	247.9	244.4
55°	293.6	277.3	242.3	216.2	216.2
57.5°	254.3	231.2	206.0	189.3	189.3
60°	220.9	192.3	174.8	163.7	167.1
62.5°	190.2	159.8	144.9	142.7	147.0
65°	162.4	135.5	117.5	125.6	129.9
67.5°	139.7	115.8	96.6	113.7	116.2
70°	118.8	100.9	81.6	104.7	105.1
72.5°	99.6	88.9	70.1	94.9	96.6
75°	86.3	77.3	64.5	84.6	88.9
77.5°	75.6	66.2	59.4	73.1	81.2
80°	64.5	54.3	55.1	61.5	69.7
82.5°	49.6	41.9	43.6	50.4	56.8
85°	34.2	31.6	29.5	37.2	41.9
87.5°	18.4	17.1	15.0	20.9	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)