

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: P290756

Luminaire Tested: **14GR-LD5-20-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290756
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-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2185.0 lumens
Efficiency: N/A
Efficacy: 134.3 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

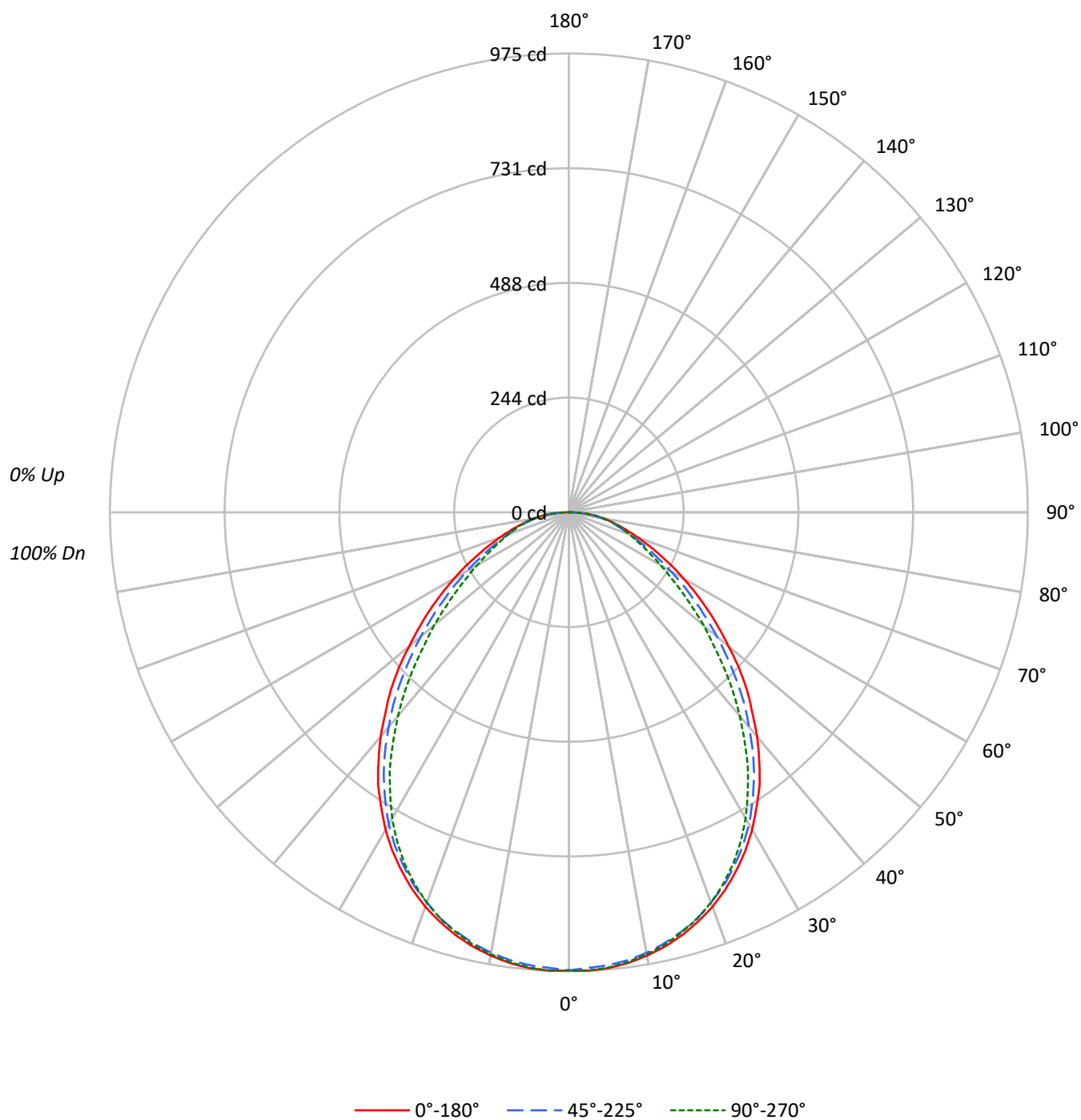
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2619	2619	2619
5°	2625	2609	2622
10°	2614	2597	2605
15°	2590	2570	2575
20°	2554	2526	2527
25°	2496	2465	2449
30°	2419	2378	2333
35°	2320	2253	2178
40°	2185	2092	1982
45°	2038	1915	1772
50°	1853	1718	1565
55°	1687	1523	1364
60°	1512	1341	1211
65°	1349	1195	1114
70°	1227	1090	1077
75°	1147	1062	1115
80°	1153	1097	1161
85°	1204	1124	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	4.2
10°-20°	260.9	11.9
20°-30°	382.6	17.5
30°-40°	427.0	19.5
40°-50°	386.6	17.7
50°-60°	291.9	13.4
60°-70°	190.8	8.7
70°-80°	112.1	5.1
80°-90°	41.0	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°	735.6	33.7
0°-40°	1162.6	53.2
0°-60°	1841.1	84.3
0°-90°	2185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2185.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	972	970	966	971	971	92
15°	930	928	923	928	924	262
25°	841	838	830	829	825	387
35°	706	700	686	670	663	440
45°	535	527	503	476	466	411
55°	360	351	325	299	291	322
65°	212	205	188	177	175	213
75°	110	107	102	104	107	118
85°	39	37	36	41	42	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.4	973.4	973.4	973.4	973.4
2.5°	974.9	973.4	968.8	974.9	974.4
5°	971.9	969.8	965.7	971.4	970.8
7.5°	965.7	963.7	959.6	964.7	963.7
10°	956.5	954.4	950.3	956.0	953.4
12.5°	944.7	942.6	938.0	943.1	941.1
15°	929.8	928.3	922.6	927.8	924.2
17.5°	911.9	909.3	905.2	908.3	905.7
20°	891.9	888.8	882.1	885.2	882.6
22.5°	867.8	863.7	859.0	859.0	855.4
25°	840.6	837.5	830.3	828.8	824.7
27.5°	811.3	808.8	799.5	797.0	789.8
30°	778.5	774.9	765.2	757.0	750.8
32.5°	742.1	739.5	726.2	715.4	706.7
35°	706.2	700.1	685.7	670.3	663.1
37.5°	664.2	659.5	641.6	622.6	612.9
40°	622.1	616.5	595.4	574.4	564.1
42.5°	576.5	571.3	551.3	526.2	515.4
45°	535.4	527.2	503.1	475.9	465.7
47.5°	490.3	481.6	455.9	427.2	415.4
50°	442.6	437.0	410.3	382.6	373.9
52.5°	400.0	391.3	366.2	339.0	329.8
55°	359.5	351.3	324.6	299.0	290.8
57.5°	319.0	309.8	286.7	263.6	255.4
60°	281.0	271.8	249.2	230.3	225.1
62.5°	246.7	236.4	216.4	201.6	198.0
65°	211.8	205.1	187.7	176.9	174.9
67.5°	182.6	174.4	160.5	155.4	154.4
70°	155.9	150.3	138.5	136.9	136.9
72.5°	131.8	127.2	118.5	119.5	121.0
75°	110.3	107.2	102.1	104.1	107.2
77.5°	91.8	88.7	85.6	88.7	90.8
80°	74.4	71.3	70.8	73.3	74.9
82.5°	55.9	53.3	53.9	58.0	59.5
85°	39.0	37.4	36.4	41.0	41.5
87.5°	20.0	19.0	18.5	22.1	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)